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PUBLIC HEARING

9

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

10 OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY

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ALTERNATIVE FUEL TRANSPORTATION PROGRAM

13

DOCKET NO. EE-RM-96-200

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September 17th, 1996

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Wyndham Anatole Hotel

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2201 Stemmons Freeway

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Dallas, Texas 75207

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Obelisk A Room

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P R O C E E D I N G S

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MR. RODGERS: Good morning. I think

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we're going to get started here. I'd like to

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extend my personal welcome to you. Thank you for

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taking time out of your busy schedules to be here.

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My name is David Rogers. I'm energy policy team

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leader with the Office of Transportation

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Technologies at the Department of Energy. My

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colleague, Vivian Lewis, from the Office of General

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Counsel is here with me today. On behalf of the

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Department of Energy, I would like to thank you for

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taking the time to participate in this public

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hearing concerning the Department's Alternative

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Fuel Transportation Program.

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The purpose of this hearing is to receive

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oral testimony from the public, from you, on the

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Department of Energy's advanced notice of proposed

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rulemaking. Your comments are not only

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appreciated, they are an essential part of this

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process as we move forward in implementing the

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Energy Policy Act.

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The ANOPR, that's our acronym for this

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advanced notice, concerns alternative fuel vehicle

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acquisition requirements for private and local

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government fleets; and the ANOPR is required by the

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1 Energy Policy Act of 1992. It begins a process to  
2 determine whether alternative fuel vehicles  
3 acquisition requirements for certain private and  
4 local government fleets should be promulgated.

5       This advanced notice also requests  
6 comments from the public on progress toward the  
7 goals set forth in Section 502(b)(2) of the Act  
8 identifying the problems with achieving the goals,  
9 assessing the adequacy and practicability of and  
10 considering all actions necessary to meet the  
11 goals. The ANOPR is intended to stimulate comments  
12 that will inform the Department's decisions  
13 concerning future rulemaking actions and  
14 nonregulatory initiatives to promote alternative  
15 fuels and alternative fuel vehicles. Can everybody  
16 hear me okay?

17       If you have not already read the Federal  
18 Register notice from August 7th of 1996, I urge you  
19 to do so. Copies are available at the back at the  
20 registration desk. And bear with me here as I read  
21 some of the required boilerplate for federal  
22 hearings of this type.

23       The comments received here today and  
24 those submitted during the written comment period  
25 will assist the Department in the rulemaking

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1 process. The written comment period ends  
2 November 5th of this year. All written comments  
3 must be received by this date to ensure full  
4 consideration by the Department. The address for  
5 sending in comments is provided in the Federal  
6 Register notice.

7       As the presiding official for this  
8 hearing, I would like to set forth the guidelines  
9 for conduct of the hearing and provide other  
10 pertinent information. In approximately one week,  
11 a transcript of this hearing will be available for  
12 inspection and copying at the Department of  
13 Energy's Freedom of Information Reading Room. The  
14 address for that room is specified in the Federal  
15 Register notice. In addition, anyone wishing to  
16 purchase a copy of the transcript may make their  
17 own arrangements with the transcribing reporter.

18       This will not be an evidentiary or  
19 judicial type hearing. It will be conducted in  
20 accordance with Section 553 of the Administrative  
21 Procedures Act, 5 USC Section 553, and Section 501  
22 of the DOE Organization Act, 42 USC Section 7191.

23       To provide the Department with as much  
24 pertinent information as possible and as many views  
25 as can reasonably be obtained and to enable

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1 interested persons to express their views, the  
2 hearing will be conducted in accordance with the  
3 following procedures:  
4       Speakers will be called to testify in the  
5 order indicated on the agenda. Speakers have been  
6 allotted 10 minutes for their oral statements.  
7 Anyone may make an unscheduled oral statement after  
8 all scheduled speakers have delivered their  
9 statements. Persons interested in making such an  
10 unscheduled statement should submit their names to  
11 the registration desk either now or before the  
12 conclusion of the last scheduled speaker.

13       And at the conclusion of all  
14 presentations, scheduled and unscheduled, speakers  
15 will be given the opportunity to make a rebuttal or  
16 clarifying statement, subject to time limitations,  
17 and will be called in the order in which the  
18 initial statements were made. Persons interested  
19 in making a statement should submit their name to  
20 the registration desk before the conclusion of the  
21 last speaker.

22       Questions will be asked only by the  
23 members of the panel here, myself and Vivian,  
24 conducting the hearing.

25       As mentioned earlier, the close of the

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1 comment period is November 1996. All written  
2 comments received will be available for public  
3 inspection at the DOE Freedom of Information  
4 Reading Room in Washington, D.C. You can contact  
5 them at (202)586-6020. The address for submitting  
6 written comments is provided in the Federal  
7 Register notice. Eight copies of the comments are  
8 requested. If you have any questions concerning  
9 the submission of the written comments, please see  
10 Andi Kasarsky at the registration desk.

11       Any person submitting information which  
12 he or she believes to be confidential and exempt by  
13 law from public disclosure should submit to the  
14 address mentioned above one complete copy and three  
15 copies from which information claimed to be  
16 confidential has been deleted. In accordance with  
17 the procedures established at 10 CFR 1004.11, the  
18 Department of Energy shall make its own  
19 determination as to whether or not the information  
20 shall be exempt from public disclosure.

21       In keeping with regulations, there will  
22 be no smoking in this room.

23       We appreciate the time and effort that  
24 you've taken in preparing your statements and are  
25 pleased to receive your comment and opinions. This

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1 introduction has been lengthy but we hope useful.  
2 And now it's time to move on to the important part,  
3 which is to hear your comments on the advanced  
4 notice.

5 I would like to call our first speaker on  
6 the agenda. For the record, I ask that each  
7 speaker please state your name and whom you  
8 represent before making your statement. Thank you  
9 very much. And at this time Mr. Kurt Dallinger,  
10 the Natural Fuels Corporation. And the podium is  
11 right over here to my left.

12 MS. McKENZIE: Obviously, my name is  
13 not Kurt. My name is Kim McKenzie. I'm marketing  
14 manager for Natural Fuels Corporation. The  
15 statement we submitted was written for Kurt, but I  
16 can speak in many ways for him, and, in fact, we  
17 are of an age and have a similar background, in  
18 terms of business.

19 My name is Kim McKenzie. I am marketing  
20 manager of Natural Fuels Corporation of Denver,  
21 Colorado. Natural Fuels was incorporated in March  
22 of 1990 as an unregulated subsidiary of Public  
23 Service Company of Colorado, the state's largest  
24 electric and gas distribution utility, and Colorado  
25 Interstate Gas Company, an interstate gas

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1 transmission company and a subsidiary of the  
2 Coastal Corporation of Houston, Texas.  
3 Natural Fuels was created to  
4 commercialize natural gas as a motor vehicle fuel  
5 in an unregulated free market environment. The  
6 primary goal was the function as a fuel retailer of  
7 natural gas, and in that regard we have come to  
8 operate more than 30 natural gas fueling stations  
9 against Colorado and into Wyoming. Many of these  
10 stations are jointly owned with gas utilities or  
11 petroleum retailers.

12 Because there were only promises of OEM  
13 vehicles in 1990, we also opened a state-of-the-art  
14 vehicle conversion and service facility to provide  
15 our customers with quality conversions to prime the  
16 market for OEMs. Since 1990 more than 2,000  
17 vehicles, from forklifts to school buses, transit  
18 buses, pickups and minivans, have been converted to  
19 run on natural gas at our facility.

20 Finally, because we were maintaining  
21 fueling station equipment initially installed by  
22 our parent companies, we began to identify  
23 equipment modifications which could improve  
24 reliability and lower operating and maintenance  
25 costs; so we began retailing fueling station

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1 equipment nationally and internationally.

2 Obviously, we have an interest in the  
3 successful commercialization of natural gas as a  
4 motor fuel. We started with that as our primary  
5 goal, and it remains a key emphasis for us; but we  
6 would assure you that the alternative fuels  
7 business had not been a cakewalk. If each of our  
8 employees and our parent companies did not firmly  
9 support the key benefits of what alternative fuels  
10 can bring to our communities, cleaner air, local  
11 jobs, economic growth and energy security, we could  
12 all surely find an easier way to make a living.

13 The advanced notice of proposed  
14 rulemaking was published for the purpose of  
15 evaluating progress toward the replacement goal  
16 stated, identifying problems with achieving the  
17 goals, assessing the adequacy and practicability of  
18 the goals and considering all the actions necessary  
19 to meet those goals.

20 I can't speak for other alternative  
21 fuels. Kurt has been in the natural gas business  
22 for more than 20 years, as have I. But I believe  
23 Energy Information Administration data as well as  
24 data from other respective sources will back me  
25 that the United States has economically

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1 recoverable, proven reserves of natural gas that  
2 can supply our transportation energy requirements  
3 for decades; but our progress towards meeting the  
4 goals of replacing 10 percent of petroleum motor  
5 fuel consumption has been slow and halting and will  
6 be unattainable without a concerted national push  
7 to maintain the viability of the alternative fuels  
8 industry.

9 According to the American Automobile  
10 Manufacturers Association Facts and Figures '93,  
11 the United States consumes more than 130 billion  
12 gallons of fuel in passenger cars, motorcycles,  
13 buses and trucks. With the exception of  
14 motorcycles and passenger cars, each of those  
15 categories consumes an average of approximately  
16 1,000 gallons of fuel per year.

17 To replace 10 percent of 130 billion  
18 gallons of fuel, 50,000 NGVs currently operating  
19 and perhaps 250,000 other alternative fuel vehicles  
20 would each have to consume more than 40,000 gallons  
21 of fuel each year. The other option would be to  
22 hope that voluntary and mandated compliance would  
23 convince vehicle buyers to purchase 13 million  
24 alternative fuel vehicles in the next three and a  
25 half years. Just as some background information,

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1 my research shows that, in fact, the automobile  
2 manufacturers sell 13 million new vehicles each  
3 year in the United States, so I think we're looking  
4 at a pretty lofty goals here.

5       These numbers become laughable not  
6 because they are unachievable, but because no one  
7 really believes we as a society are serious about  
8 achieving them. Manufacturers do not build  
9 adequate supplies of vehicles because they say  
10 there are no buyers. Fleets will not push for  
11 vehicles because of perceived risks, both financial  
12 and operational, so they prefer to wait for the  
13 fleet police to come down the road and make them  
14 convert. Those who are building stations are no  
15 longer in a position to invest capital with no  
16 promise of potential earnings.

17       At the same time, I do need to say that  
18 Natural Fuels has many wonderful customers, public  
19 and private fleets both, using natural gas, fleets  
20 which took steps early on to meet mandates and  
21 regulatory requirements but who also believed that  
22 the switch to alternative fuels was the right thing  
23 to do for their community and their country.

24       With regard to the fourth purpose of the  
25 ANOPR, considering all actions necessary to meet

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1 the fuel replacement goals, the Department  
2 requested comments on several general issues  
3 relating to achieving the replacement goals of the  
4 Energy Policy Act. Natural Fuels supports the  
5 inclusion of private and municipal fleets under the  
6 EPACT mandates, even though we would prefer that  
7 the economic benefits of alternative fuels be the  
8 focus of fleets' decisions. Without some  
9 substantial ensured market, however, we question  
10 whether vehicle manufacturers will provide the  
11 vehicles necessary for this market to survive.

12       Despite the proven ability of all three  
13 American automobile companies to produce clean,  
14 efficient, reliable natural gas vehicles, each has  
15 dropped in and out of production of AFVs. Until  
16 vehicles are available in sufficient quantities at  
17 minimal cost increments, we would especially  
18 support tax credits and other incentives to assist  
19 fleets in acquiring alternative fuel vehicles.

20       The types of vehicles which would make  
21 the biggest impact on fuel replacement goals would  
22 be buses, delivery vans and trucks of all types.  
23 Funding R&D into engines and storage cylinders,  
24 supporting ways to bring on-board diagnostic  
25 computer codes into the marketplace so aftermarket

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1 conversions could be developed on a timely basis,  
2 until OEM vehicle production ramps up, and removing  
3 regulatory on other barriers from the alternative  
4 fuel marketplace, as well as providing incentives  
5 like faster depreciation of fleet AFVs, tax credits  
6 and so forth, would be most helpful in the near  
7 term.

8       Infrastructure development should not be  
9 an issue. I and my company can make a legitimate  
10 investment in alternative fuel stations, if I have  
11 a market. This is not a "build them and they will  
12 come" optimism. If I see a demand, I will meet it,  
13 and I will create jobs in the process.

14       I have been speaking as a business  
15 person. I am also a parent of -- I have three  
16 children, a 14-year-old and 10-year-old twins, and  
17 I have to tell you I am appalled as I watch what's  
18 going on in the Middle East right now, that we as a  
19 country would be willing to sacrifice our young  
20 people, our future generations and put them at risk  
21 in some Middle Eastern desert to ensure the flow of  
22 imported oil from around the world.

23       I think we have in our country  
24 alternative sources of energy, especially to  
25 replace motor fuels, right now that are already

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1 available and usable; and I think we as a country  
2 need to focus on those and at least bring them into  
3 play so that we're no longer at risk from the  
4 people who apparently have very different goals and  
5 agendas perhaps than each of us does.

6       It is my sincere hope that we'll become  
7 serious about our search for replacement fuels and  
8 that we will be willing to invest in the fuels we  
9 have in our own back yard.

10       Thank you for the opportunity to speak  
11 today.

12       MR. RODGERS: Thank you, Kim.  
13 Vivian, do you have any questions you would like to  
14 address to the speaker?

15       MS. LEWIS: No.

16       MR. RODGERS: Okay. Our next  
17 scheduled speaker is Edward Zagorski.

18       MR. ZAGORSKI: Thank you. My name  
19 is Ed Zagorski, and I am senior vice president of  
20 operations for Associates Leasing. I'm also  
21 representing the American Automotive Leasing  
22 Association this morning. And I want to thank you,  
23 Mr. Rogers and Ms. Lewis, for giving me the  
24 opportunity to speak this morning. Thank you very  
25 much.

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1 I am Ed Zagorski, senior vice president  
2 of operations for Associates Leasing in Carrollton,  
3 Texas and that is a suburb of Dallas. Associates  
4 is one of many corporations in the United States  
5 that provide vehicle acquisition, ownership,  
6 maintenance, operation and resale services to  
7 private commercial fleets as well as to government  
8 fleets. We as well as our counterparts in the  
9 American Automotive Leasing Association throughout  
10 the country specialize in increasing the  
11 reliability, the effectiveness and cost efficiency  
12 of motor vehicle fleets and act as partners with  
13 fleet operators in meeting those needs.

14 While the largest number of vehicles in  
15 use are sales and service vehicles, other  
16 applications we have, for instance, include  
17 medium-duty trucks used in hauling cable and heavy  
18 equipment, box vans used to carry restaurant  
19 equipment such as ovens, local and long distance  
20 goods moving equipment and chassis cabs with boxes  
21 in the back that are used by caterers. Many of our  
22 vehicles are housed within but are operated outside  
23 metropolitan areas.

24 Associates provides leasing, financing  
25 and management services for over 200,000 vehicles.

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1 Our industry has about three and a half million  
2 vehicles in operation by our lessees. Our role  
3 places us, we believe, in a very unique position.  
4 We're heavily involved and concerned about the  
5 introduction of alternative fuels into fleets. At  
6 the same time, we're really economically  
7 disinterested. We don't have anything to lose by a  
8 shift from one fuel to another, and we're not  
9 vested in any particular fuel or technology. In  
10 fact, new products and market changes increase our  
11 value to customers as advisors, so it's conceivable  
12 that alternative fuels could present financial  
13 opportunity to Associates and other vehicle  
14 lessors.

15 Having said this, I must tell you that we  
16 believe it would be a mistake to issue a private  
17 fleet mandate through this rulemaking proceeding.  
18 The general approach, we believe, is flawed; and  
19 even if it were not, there are inherent and  
20 circumstantial problems with going forward with  
21 such an effort that it makes it ill-advised at this  
22 time.

23 Let me take a moment to explain. Several  
24 aspects of the private fleet market combine to work  
25 as a barrier to the success of the fleet



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1 acquisition mandate. First, the displacement of  
2 gasoline and diesel fuel would not occur to any  
3 significant extent because the fleet vehicle  
4 population size is small compared to the total  
5 number of vehicles on the road. Total fleets  
6 constitute between three and five percent of all  
7 motor vehicles, while the scaled back number  
8 covered by the proposed rule would be a fraction of  
9 that because of weight limit, central fueling  
10 criteria and other vehicle exclusions and  
11 exemptions.

12       Secondly, because of the reasonably small  
13 proposition of vehicles covered, energy security  
14 interests are advanced only if the program  
15 generates a positive value as a demonstration to  
16 the broad vehicle market at large. The attitude and  
17 opinion, as well as dollars and cents, affect the  
18 vehicle market as extensively and just as certainly  
19 as it drives the stock market.

20       In this case forced acquisitions,  
21 operational dislocations, required paperwork, risk  
22 of government inspectors, noncompetitive pricing  
23 and service and mandated deadlines all  
24 unconsciously work to create a negative attitude to  
25 a fleet operator that ensures that the chance that

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1 alternative fuels would get a fair shake by fleets  
2 would be slim to none. Even if the economics makes  
3 sense, the presence of a government purchasing  
4 agent as a partner in making vehicle selections  
5 would negatively affect the attitude and opinion  
6 for all the reasons I just mentioned.

7       Because the vehicles are usually used on  
8 routes covering substantial distances and numerous  
9 stops or calls on businesses and households, a real  
10 world possibility exists that negative, adverse  
11 word of mouth publicly about alternative fuels  
12 could do unnecessary harm instead of promote the  
13 development of a sustainable market. Even the  
14 possibility of a future mandate for fleet  
15 acquisitions constitutes a dark cloud over the  
16 current market.

17       Thirdly, because the mandate acts as a  
18 disincentive, it works at cross purposes the  
19 incentives that have been enacted or are under  
20 consideration to encourage voluntary use of  
21 alternative fuel vehicles. It also puts the fleet  
22 industry, which should be aligned with the  
23 advocates of incentives, devoting their efforts  
24 instead to opposing mandates.

25       And, finally, the very nature of the

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1 fleet industry makes the prospect of successful  
2 mandates remote. If a fleet operator cannot  
3 economically shift to alternative fuel use, that  
4 operator will be forced to disband its fleet and  
5 reimburse its drivers for using its own vehicles.  
6 It's not a rare occurrence. Market forces today  
7 often result in shifts back and forth from  
8 reimbursement to managed central fleets, absent any  
9 intervening government requirements. Mandates  
10 create artificial pressure to eliminate organized  
11 fleets, which, in turn, exacerbates the situation.

12 Now, in specific response to the  
13 questions asked by you, the Department of Energy,  
14 in this rulemaking notice, I'll offer the following  
15 comments:

16 As to vehicle availability, we urge the  
17 Department of Energy when making any assessments  
18 about vehicle availability to take into account the  
19 variety of cars and trucks necessary to meet the  
20 diverse needs of fleets that would be required to  
21 purchase alternative fuel vehicles. If the  
22 variations of configuration needed by fleet  
23 operators aren't available, it will not only burden  
24 the fleet; it will also jeopardize the outcome of  
25 the program.

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1 A Taurus, for example, is a fine vehicle,  
2 but if that were the only model available under  
3 alternative fuels, customers' needs could not be  
4 met; and the previous examples I've cited are  
5 examples of where the Taurus does not meet those  
6 customers' needs.

7 To illustrate in another way, this is our  
8 fleet selector guide for 1997. This lists in over  
9 130 pages all the various makes and models produced  
10 by U.S. manufacturers and, in fact, foreign  
11 manufacturers, identifying the various types,  
12 models and specifications that we determine are  
13 appropriate for fleet consideration. In fact,  
14 there's even other vehicles that aren't included in  
15 here that might not be appropriate for fleet  
16 consideration.

17 It's not uncommon that our customers --  
18 not only our customers at Associates, but those of  
19 the leasing association may order 10 or more  
20 different models in any one year, body styles,  
21 different chassis. This is a selector for one of  
22 our customers. I won't mention the name. But  
23 there's 22 different models in this selector  
24 ranging from pickups, F350s, all the way down to  
25 Contours. As of today, manufacturers have not even

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1 come close to offering anywhere near the same  
2 variety and volume of vehicles that use alternative  
3 fuel, nor do we feel they will do so in the  
4 foreseeable future.

5 As to fuel and needed infrastructure,  
6 it's important to note that operational reliability  
7 hinges on two things, vehicles that are certain to  
8 not break down and adequate refueling at locations  
9 and times that fit the business plans of companies,  
10 considering extended range as well as central  
11 fueling. This isn't a matter of convenience, as it  
12 may be at times for personal vehicle usage. It's  
13 the productivity of the person using the vehicle  
14 that matters the most. For example, the fully  
15 attributable cost of a salesperson or service  
16 technician on the road can easily be upwards of  
17 \$150 to \$200 an hour, so the impact of traveling to  
18 out-of-the-way refueling locations, running out of  
19 fuel or being disabled due to the mechanical  
20 failure of a new technology can add up to  
21 significant operating costs subject and apart from  
22 the actual fuel and vehicle cost differential.  
23 Those costs can also create competitive  
24 disadvantages for covered fleets in comparison to  
25 fleets that are exempt.

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1 As to industry impact, to understand the  
2 competitive effects, it's important to understand  
3 the lack of barriers to disbanding a fleet that a  
4 driver reimbursement program -- that would place  
5 the drivers outside the program would involve. An  
6 organized fleet normally exists only because of the  
7 cost of advantages, in some cases only slight cost  
8 advantages, over companies that merely reimburse  
9 their employees for using their own vehicles. And  
10 the typical fleet could only sustain a limited  
11 additional cost or competitive disadvantage before  
12 it would be forced by market conditions to shift  
13 over to driver reimbursement.

14 It's not difficult for a business to make  
15 such a shift. It happens in both directions fairly  
16 frequently. It's only a matter of a company  
17 deciding to dispose of its vehicles and notifying  
18 us or purchasing vehicles and notifying us. In the  
19 face of costlier or unmanageable mandates, it would  
20 happen to such an extent that it would be a  
21 disaster to fleet leasing and management  
22 companies. Also because of the loss of a  
23 significant potential market, it would set back the  
24 development of alternative fuel vehicle use  
25 generally.

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1 Even though the broad-based mandates do  
2 not make sense across the board, many specific  
3 fleets are excellent prospects for voluntary use  
4 for the locations and uses where it would make  
5 sense. That's far less likely in the case of  
6 individual one-on-one purchasers.

7 I urge the Department to use the  
8 opportunity presented in this rulemaking to take  
9 three steps that could work for developing  
10 alternative fuel use:

11 First, we recommend the Department should  
12 not only announce it will not issue early  
13 rulemaking, but also take the more decisive step of  
14 making a policy statement against further mandates  
15 under the Energy Policy Act. And as I talked about  
16 at the start, the biggest barriers to alternative  
17 fuel use are mandates. They harm the market, not  
18 help it.

19 Second, we recommend that we work to  
20 create incentives that eliminate the entry level  
21 problem for those fleets interested in pioneering  
22 the use of alternative fuels, and these can be  
23 financial incentives to recoup fuel, infrastructure  
24 and operational costs. It can also be operational  
25 incentives that reward alternative fuel use by

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1 fleets. Good examples would be HOV lane rights,  
2 preferred parking, loading and similar preferences.

3 Third, the Department of Energy should  
4 continue to work with the administration to  
5 increase the number of models of alternative fuel  
6 vehicles that the federal government purchases. A  
7 policy of leading by example, not by mandate,  
8 should be pursued.

9 I appreciate the opportunity to testify  
10 today. Just as a side comment, if the mandate were  
11 to go into effect -- for instance, my wife is a  
12 salesperson. She covers about a 500-square-mile  
13 territory that includes places like Wichita Falls  
14 and Abilene, Waco and East Texas. And the  
15 availability of alternative fuels for her vehicle  
16 plus the very limited range that exists today in  
17 manufactured vehicles would be a real concern for  
18 her and for her fleet.

19 If there's any questions, I'd be happy to  
20 take them, and, again, thank you very much.

21 MR. RODGERS: Thank you very much.  
22 I did have one question and one request. First, is  
23 it possible for us to get a copy of your fleet  
24 preview?

25 MR. ZAGORSKI: Of this? I'd be

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1 happy to send that along.

2 MR. RODGERS: Thank you. I think  
3 that would be very helpful to us.

4 The second is you listed a lot of  
5 characteristics of fleets being something that the  
6 public can see vehicles in operation and it could  
7 be a negative impact, and, I guess, if -- I would  
8 just like to ask if there were a combination of  
9 vehicles and fuels, alternative fuels, that was  
10 cost beneficial for a fleet, that the drivers  
11 liked, that had excellent performance, low  
12 maintenance, if, in fact, that very public image  
13 that your fleet has might be a positive benefit for  
14 the use of alternative fuels.

15 MR. ZAGORSKI: Well, I think, as I  
16 said, the mandates are the issue with us. Really,  
17 when you come right down to it -- we talked about  
18 three and a half million vehicles in use by fleets,  
19 and I talked about one customer that runs 22  
20 different types of models. Now, that customer only  
21 has about 500 vehicles on lease with us. But what  
22 you're talking about is, you know, as I say, you've  
23 got -- gosh, I want to say over a thousand various  
24 types and models.

25 Now, our issue would be the availability

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1 of the vehicles to run in a range and in areas  
2 where they may not be easily refueled, and, you  
3 know, the equipment on the market today and knowing  
4 what is available doesn't allow for that easy  
5 refueling because the range is just not there and  
6 because the variety of vehicles, quite frankly, is  
7 not there.

8 I'm not a manufacturer, so I can't speak  
9 to availability. I'm not a person that runs a box  
10 van, so I don't know, for instance, how many miles  
11 he can squeeze out of it. But I do think there's a  
12 lot of opportunity here in metropolitan areas.

13 This morning, driving down here to the  
14 conference, I was on Interstate 35, Stemmons  
15 Freeway. It took me roughly 30 minutes from  
16 Carrollton to get here, and that with no traffic  
17 would be about a 20-minute ride. They opened an  
18 HOV lane on I-35 last week -- or actually on Monday  
19 here, and there was nobody in that lane, and, you  
20 know, if you could provide fleet vehicles with a  
21 sticker that would allow it to use the HOV lane, I  
22 think that would be a tremendous productivity tool  
23 and would go away from the mandate.

24 I think mandates are just going to be  
25 something that will be very difficult for our users

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1 to swallow, and the thing I -- the two things I  
2 fear, number one, if you have a mandate and if 50  
3 vehicles is the threshold, you'll see fleets go up  
4 to 49, and then at that point they'll disband. So  
5 what have you done? You've seen people go away  
6 from what the policies intended to enact. And,  
7 number two, I think you'll go, as I say, to driver  
8 reimbursement. We have that all the time today.  
9 It's really got to be cost justified, and it's got  
10 to be fully available before, I think, our lessees,  
11 our customers, before the association would feel  
12 comfortable, in answer to your question, in  
13 supporting the mandates.

14 MR. RODGERS: Vivian?

15 MS. LEWIS: Yes, I have one or two  
16 questions.

17 MR. ZAGORSKI: Sure.

18 MS. LEWIS: The customer you  
19 mentioned that's typical, that's not the typical  
20 customer under your program, is it, 20 different  
21 types of vehicles?

22 MR. ZAGORSKI: I didn't bring out  
23 the other -- some other examples. I have --

24 MS. LEWIS: That must be a very  
25 large one.

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1 MR. ZAGORSKI: Actually, they only  
2 have about 500 vehicle on lease with us. Our  
3 largest customer has over 4,000 vehicles on lease  
4 with us and doesn't have near that many different  
5 models. It really depends upon the type of use.

6 Now, for instance, somebody is using  
7 various gradations of cars to handle samples. For  
8 instance, let's say you're a drug company and you  
9 have a salesperson hauling samples and another  
10 person hauling machinery, et cetera. It really  
11 depends upon the type of company that you're  
12 dealing with and how many product lines they're  
13 in.

14 MS. LEWIS: I appreciate, you know,  
15 the positives and the negatives that you gave us,  
16 but I'm more interested in the negatives. Because  
17 when we put a rule, which we may or may not do  
18 here, we like to know what impacts our regulations  
19 are going to have on what we're dealing with. So  
20 you mentioned something about -- and I'm going to  
21 say, as an attorney, I don't really deal with the  
22 technical aspects of vehicles per se. I hear Roger  
23 and the other technical people talking about them,  
24 but I have to accept what they say and what I  
25 read. But I remember reading a report dealing with

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1 our Federal Fleets Program, and I don't recall --  
2 David, you can back me up or tell me I'm wrong  
3 here. I don't recall seeing a lot of problems in  
4 those vehicle which are out in our fleets right  
5 now; but from what you said a few minutes ago, you  
6 must have some information that there must be  
7 problems with some of these vehicles whether it's  
8 natural gas, propane or what have you, that may be  
9 experiencing a lot of mechanical problems.

10 In particular you mentioned something  
11 about the mechanic. You may have to pay 150, \$200  
12 an hour in case the vehicle breaks down. I assume  
13 we have the same typical problem with any  
14 conventional type vehicle, I would assume.

15 MR. ZAGORSKI: Well, --

16 MS. LEWIS: But with these vehicles,  
17 surely, they're relatively new on the market, so  
18 you expect certain types of problems. But could  
19 you speak to the potential problems?

20 MR. ZAGORSKI: Sure. And I think  
21 you hit on that in the last phrase that you used,  
22 and that is the relatively untested technology.  
23 You've got a combination of things happening, and I  
24 appreciate your question.

25 Number one, you have vehicles that we're

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1 going to be asking to be used outside of major  
2 metropolitan areas. What that means is that you  
3 have to find people that can fix those vehicles  
4 when they break down.

5 Secondly, you've got the untested  
6 technology, and certainly I think one of the issues  
7 we have right now is range of those vehicles. They  
8 do only run 80 to 150, 250 miles, even in the case  
9 of flexible fuel vehicles, which what you have are  
10 vehicles that have to carry two fuel tanks, which  
11 cuts down on mileage and the like. So you've got  
12 some -- you've got some issues with that.

13 And, again, you know, that's not to say  
14 that we're opposed to incentives for vehicles and  
15 the like, but we're just saying we need technology  
16 that's readily available, that's certain. And we  
17 understand it took a hundred years to develop the  
18 internal combustion engine to the place it is  
19 today, and to tell three and a half million drivers  
20 that suddenly within the next two to three years  
21 you're going to have to begin converting to a  
22 technology that's only really come even to the  
23 point where it is today over the last 10 years or  
24 so, is making a pretty substantial leap of faith in  
25 our estimation. Does that address your --

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1 MS. LEWIS: But you don't have any  
2 direct information about maintenance problems, real  
3 serious maintenance problems, of these alternative  
4 fuel vehicles? I understand that infrastructure is  
5 a problem in some places, but I'm more interested  
6 in the maintenance of these vehicles.

7 MR. ZAGORSKI: What I will do is I  
8 will go back to our maintenance people, and we will  
9 get you an answer on that.

10 MS. LEWIS: Thank you.

11 MR. ZAGORSKI: There is some data  
12 that we have. And we do have some alternatively  
13 fueled vehicles under lease today, so it's not a  
14 problem that's foreign to us. And when I made that  
15 statement, yes, we have seen some additional  
16 maintenance --

17 MS. LEWIS: What type of vehicles do  
18 you have?

19 MR. ZAGORSKI: We have Tauruses.

20 MS. LEWIS: I mean, the alternative  
21 fuel vehicles.

22 MR. ZAGORSKI: Yes, some Tauruses  
23 and some pickup trucks and the like.

24 MS. LEWIS: And they're running on  
25 what type of fuel?

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1 MR. ZAGORSKI: They run on natural  
2 gas and ethanol.

3 MR. RODGERS: Thank you very much,  
4 Ed.

5 MR. ZAGORSKI: Thank you.

6 MR. RODGERS: Our next speaker is  
7 Christopher Amos. Christopher wins the award for  
8 the most novel tie of the day.

9 MR. AMOS: I actually am a fleet  
10 administrator. You have to wear a tie to make a  
11 statement, right? Most of the time I get away  
12 without having to wear one.

13 I'm Chris Amos and I'm representing the  
14 National Association of Fleet Administrators  
15 today. I thank you for the opportunity to  
16 participate in this hearing. I'm Chris Amos,  
17 commissioner of equipment services for the City of  
18 St. Louis. I'm here today to share with you the  
19 views of the members of that National Association  
20 of Fleet Administrators, NAFA.

21 NAFA is an association of professional  
22 fleet managers. Our 2,000 members manage more than  
23 2.7 million cars, vans, medium/light-duty vehicles  
24 for corporations, utilities and government  
25 agencies. I manage the largest public fleet in the



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1 St. Louis region with 2800 vehicles. The mandates  
2 in the Energy Policy Act affect St. Louis.  
3 St. Louis is also a modern nonattainment area which  
4 will likely be reclassified as a serious area later  
5 this year and be subject to the fleet mandates of  
6 the Clean Air Act. St. Louis has tested light-duty  
7 vehicles running on propane, compressed natural  
8 gas, ethanol and biodiesel. We are in the process  
9 of procuring our first heavy-duty CNG vehicle.

10 While all of the fuels have proven viable  
11 for some portion of our locally operated fleet,  
12 none currently offer the needed combination of  
13 functionality in terms of payload and range EPA  
14 certification as a low-emission vehicle and life  
15 cycle cost parity with conventional vehicles. So  
16 far I have delayed any large scale implementation  
17 of alternative fuel vehicles hoping for  
18 improvements in technology and improved life cycle  
19 cost.

20 As a founder and public chair of the  
21 St. Louis Regional Clean Cities Program, I have  
22 voluntarily worked to help both local fleets and  
23 fleets across the country to make informed  
24 decisions about using alternative fuels. St. Louis  
25 hosted the first national Clean Cities conference,

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1 where I represented the fleet perspective in the  
2 ultimate Clean Cities session and moderated the  
3 fleet managers workshop. DOE again invited me to  
4 instruct the fleet managers workshop at this year's  
5 conference in Atlanta.

6 I will step ahead and talk about  
7 barriers. Businesses and local governments are  
8 very cautious about making substantial investments  
9 in AFVs until the technology is further developed  
10 and practical concerns with the cost,  
11 infrastructure and operational considerations are  
12 resolved.

13 Despite support for alternative fuels,  
14 business decisions have to be made. In practical  
15 terms a fleet owner must decide to acquire  
16 alternative fuel vehicles by answering two  
17 questions: First, can I obtain an alternative fuel  
18 vehicle which will meet my needs? Second, can I  
19 obtain the fuel on which the vehicle will operate?  
20 Unless the answer to both questions is yes, a fleet  
21 owner cannot be expected to purchase AFVs. The  
22 answer is no for most fleets because we have not  
23 overcome substantial barriers. Today I would like  
24 to address three of these barriers: vehicle cost,  
25 infrastructure and driving range.

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1       On the first one, vehicle cost, the  
2 economics of AFVs is not favorable. We welcome the  
3 recent announcement by Ford Motor Company that it  
4 will reduce the cost of many of its alternative  
5 fuel vehicles for the 1997 model year. This will  
6 spur sales in the near term. In fact, I just  
7 placed an order for a new pickup truck for myself  
8 with that incentive. However, it is not a measure  
9 of what these vehicles will cost next year, and I  
10 think DOE will agree that eventually Ford will have  
11 to price these AFVs at their true cost.

12       There are three major factors when  
13 considering life cycle cost of a vehicle:

14 acquisition cost, operating expense and resale.

15       Acquisition cost. For fleets today,  
16 initial cost is the number one criteria in vehicle  
17 selection, and that is particularly true, I might  
18 add, in the public sector, where the low bid is  
19 almost always the overriding concern on what it is  
20 we buy. The increased cost of AFVs is one key  
21 reason that the federal government has failed to  
22 comply with mandates to acquire alternative fuel  
23 vehicles. The incremental cost of a CNG light-duty  
24 vehicle can range from 2,000 to 5,000.

25       Please consider the following:

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1       The presidential advisory committee in  
2 Car Talk reported that the current NGV incremental  
3 cost is roughly \$3500.

4       Metro Dade County in Florida reported the  
5 average cost for CNG new or conversion is  
6 approximately \$5100.

7       In comments to DOE, the State of  
8 Washington Department of General Administration  
9 reported the cost of OEM alternative fuel vehicles  
10 is also a major deterrent to fleet purchase. The  
11 Price premium for a three-quarter ton regular cab  
12 pickup was \$6,669 or more than 50 percent over the  
13 vehicle's base price.

14       The other bifueled vehicles in the state  
15 contract carried similarly large price premiums  
16 ranging from 36 to 44 percent of the base vehicle  
17 price.

18       Operating expenses. For many fleets even  
19 when the alternative fuel itself is more  
20 economical, which is true in the case of propane  
21 and natural gas and not in the others, recovering  
22 the equipment investment over the life of the  
23 vehicle is not possible. One of the nation's  
24 largest municipal fleets reports that with the  
25 large capital investment required, there will be no

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1 payback within the life cycle of CNG vehicles.

2 Please consider these important points:

3 The average light-duty vehicle uses 850 gallons of  
4 fuel per year. In the case of a local government,  
5 the cost of CNG is 30 to 35 cents under the retail  
6 price for gasoline. Based on a yearly usage of 850  
7 gallons, the savings would be \$225 per vehicle per  
8 year. In this situation it would take 15 years to  
9 recover the added cost of \$3,500 per vehicle. And  
10 I don't know about you, but I haven't seen a  
11 light-duty vehicle on the road yet that will last  
12 them 15 years. They rust in two before that  
13 happens.

14 The State of Washington commented to DOE  
15 even at a fuel-cost saving at 50 cents per gallon  
16 the initial vehicle investment would not be covered  
17 over the five-to-seven-year operating life of a  
18 typical state vehicle.

19 Other fuel-related costs can offset any  
20 benefit of the lower price at the pump. In the DOE  
21 analysis provided to Car Talk, the cost of CNG for  
22 a dedicated vehicle was \$1.11 per gallon equivalent  
23 versus \$1.02 for gasoline when costs for increased  
24 fueling and search time are included.

25 The use of CNG, a lighter-than-air fuel,

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1 requires major renovations to older maintenance  
2 facilities to eliminate open flame heaters, update  
3 lighting systems and improve ventilation. These  
4 changes have cost some fleets over a million  
5 dollars in capital investment.

6 I have eight garages myself in the city  
7 of St. Louis, and not one of them is capable of  
8 meeting the fire codes for working on alternative  
9 fuels, for working on compressed natural gas; and  
10 to date, the OEM manufacturers are only producing  
11 compressed natural gas vehicles that meet both Clean  
12 Air Act and Energy Policy Act mandates, if they  
13 were to be in place. So that puts me in a position  
14 where either I've got 97 mechanics working for me  
15 that can't work on them in our facilities, or I  
16 have to spend 600,000 to a million dollars per each  
17 of my eight facilities to upgrade them to work on  
18 these vehicles.

19 And that problem being lighter than air  
20 is a significant issue with compressed natural  
21 gas. It's a great fuel, it's a good price, but  
22 it's one of those hidden costs that a lot of fleets  
23 are not aware of. And when you're dealing with  
24 propane and ethanol and methanol, biodiesel, you  
25 don't have that lighter-than-air problem, so you

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1 don't have the facilities; but then you don't get  
2 the benefits that a compressed natural gas engine  
3 will offer, and you also have a problem with the  
4 nonavailability from the OEMs. So at this point,  
5 you've only got one choice, CNG, and that one  
6 choice is going to cost me a bundle.

7       Resale value. There's no objective data  
8 available on what the resale value might be for  
9 AFVs. Most data is speculative at best. I might  
10 add to that statement that in the case of a  
11 municipal fleet, most of us drive our vehicles  
12 until they drop; so the value of the vehicle at the  
13 end of the driving period is minimal at best. I  
14 mean, a pickup truck that cost \$15,000 initial  
15 purchase price, we'll be lucky if we get \$400 for  
16 it by the time we're done using it. But that's not  
17 typical for most commercial fleets.

18       Most fleets operate their vehicles  
19 60,000, 80,000 miles, maybe, and then they're ready  
20 to trade them in. You just heard from the  
21 gentleman about leasing. Of course, a typical  
22 lease is around that period too, around 60,000  
23 miles. So whereas when you get a fleet like mine,  
24 a public fleet that operates right in one area, if  
25 we can't make it work economically, then those

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1 commercial fleets that are out there operating  
2 under different circumstances don't have a prayer  
3 of operating economically.

4       Barrier two, refueling infrastructure.  
5 The number one barrier in the use of alternative  
6 fuels is the refueling infrastructure. In a survey  
7 that NAFA conducted in California, when we asked  
8 the drivers to compare the operation of their FFV,  
9 flexible fuel vehicle, with their previous gasoline  
10 vehicle, most found the FFV to be as good or  
11 better. However, when asked will you purchase an  
12 alternative fuel vehicle for personal use, the  
13 overwhelming majority said no because of the lack  
14 of convenient fueling facilities. Of fleet  
15 managers surveyed, 61 percent of those offering  
16 comments cited inadequate number and location of  
17 methanol fueling facilities as a discouraging  
18 factor.

19       For CNG, the inadequacy of CNG refueling  
20 infrastructure is a major barrier to widespread  
21 fleet use of this fuel. Of the CNG stations in  
22 operation today, the majority are not available for  
23 convenient retail use. Fleets are encouraged that  
24 many more stations are being planned. However, the  
25 large investment required to put in a CNG refueling

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1 facility estimated at between 250 and \$500,000  
2 causes many fleets to question whether an adequate  
3 number of stations will be in place within the  
4 foreseeable future.

5       Some fleets have negotiated with  
6 utilities to install CNG stations. The experiences  
7 run from excellent to poor. A large government  
8 fleet in New York reports that discussions with  
9 large gas utilities has been frustrating in the  
10 area, to say the least.

11       I'd say that on a case-by-case basis, in  
12 my fleet's case and with many of the others that  
13 I've talked to, we can normally -- if you operate a  
14 vehicle fleet within a confined area, we can get  
15 good cooperation from the fuel suppliers and from  
16 the infrastructure folks to put stations in where  
17 we need them. The problem is that you have to have  
18 so many at once to make it economically viable for  
19 them. You can't expect them to spend three to  
20 \$400,000 putting in a station for 10 vehicles.  
21 It's just not reasonable to expect that.

22       And in the same term, whereas I may spend  
23 \$3 million buying vehicles this year, of those that  
24 I might spend that would run on any one given fuel,  
25 I'd be lucky if 10 or 15 of them will be a certain

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1 alternative fuel. So even if we build coalitions  
2 like we do in the Clean Cities program, it's  
3 difficult to get those stations open just because  
4 of the sheer numbers it takes to make it viable.

5       You know, you talk about putting in a  
6 gasoline site, you're talking about 60 to \$65,000  
7 to do that. If you're talking about putting in a  
8 compressed natural gas site, that 300 to 500,000 is  
9 a whole different ballgame as far as economics are  
10 concerned.

11       Okay. Driving range. The infrastructure  
12 needs are magnified because of the reduced  
13 operating range of alternative fuels requiring more  
14 refueling events and lost productivity as drivers  
15 seek out stations. There has been some improvement  
16 in operating range issues, and I think the  
17 manufacturers are trying to address that; but it  
18 still is a major problem.

19       According to data provided by the  
20 California Energy Commission, the driving range for  
21 a gasoline vehicle is 364 miles per tank as  
22 compared with the range of CNG of 150 miles per  
23 tank, and for methanol of 217 miles per tank.

24       The U.S. General Services Administration  
25 reports that the driving range for CNG vehicles has

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1 been much less than predicted. That's pretty much  
2 consistent with what you see on the data sheets  
3 from the manufacturers. Everybody who's driven  
4 them will tell you, you know, plan on about 80  
5 percent of that as a real operating range.

6       The utility fleet in New Jersey reports a  
7 loss of 20 percent of fuel economy for CNG van  
8 conversions. In California fleets and drivers of  
9 methanol FFVs report that the limited range plus  
10 more frequent refueling needs were significant  
11 disincentives. Many law enforcement fleets  
12 reported poor operating range as a significant  
13 problem for CNG vehicles. In Oklahoma a municipal  
14 police department is struggling to operate CNG in a  
15 metropolitan area.

16       I might add at that point that the  
17 current structure of the mandates which limits  
18 itself and the size of the vehicles to only the  
19 light-duty vehicles to only light-duty vehicles and  
20 exempts law enforcement fleets is -- I don't  
21 think -- it's not well-founded. If there's any  
22 vehicle that can break even on an alternative fuel,  
23 it's got to be a police vehicle. These are big gas  
24 hogs driving full-sized vehicles. They're lucky if  
25 they get 10 miles to the gallon on conventional

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1 fuel. They stay largely in a confined area. We've  
2 had good luck running police vehicles on both  
3 natural gas and on propane, but with the natural  
4 gas issue, the range is a major consideration.  
5 You're talking about vehicles that are running  
6 45,000 miles a year three shifts a day on CNG. The  
7 experience has been they're having to fuel up about  
8 every shift instead of once a day for the three  
9 shifts, and that's a significant time factor. That  
10 means that they're sitting at the gas station for  
11 10 or 15 minutes instead of out on the road doing  
12 their job. So there's a -- you know, range is a  
13 consideration, but law enforcement vehicles are  
14 definitely a viable alternative for this process.  
15 And those -- and if you look at the voluntary  
16 compliance around the country, you'll find that a  
17 lot of municipal police units have tried this fuel  
18 and have been successful with it.

19       In conclusion, to date the federal  
20 government has failed to define and follow a sound  
21 coordinated alternative fuels policy. A policy  
22 that has fleet mandates as their focal point is  
23 about as effective as putting a Band-Aid on an  
24 amputated limb to stop the bleeding.

25       Fleets represent less than five percent

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1 of all light-duty vehicles on the road. In light  
2 of uncertain federal policies along with higher  
3 vehicle costs, sporadic manufacturer commitment and  
4 the lack of a refueling infrastructure, the  
5 prospects of a major transition to AFVs is very  
6 risky for those of us responsible for critical  
7 corporate and government fleet assets.

8 No one is more committed to making  
9 alternative fuels work than I am; however, I have  
10 no intention of committing professional suicide by  
11 spending more tax dollars than I must to provide  
12 quality fleet services. Fleets can help be a  
13 valuable springboard for expansion of AFV  
14 technology to the general public, but mandates are  
15 not the answer. Mandates have not eliminated the  
16 barriers that exist to widespread use of AFVs.  
17 Mandates have not reduced the cost of vehicles,  
18 built any more fueling stations or increased the  
19 range of vehicles.

20 We urge the Department of Energy not to  
21 impose mandates but to foster voluntary partnership  
22 that builds on the successes of DOE's Clean Cities  
23 Program, a partnership that focuses on overcoming  
24 barriers developing technologies and putting AFVs  
25 on the road.

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1 That's the conclusion of my prepared  
2 remarks. I do have a couple of points I'd like to  
3 make that haven't necessarily been sanctioned by  
4 NAFA, so take this from Chris Amos alone, okay?

5 In the ANOPR there's a reference on page  
6 41035. I guess it's right before Roman numeral  
7 II. It says, "If DOE were eventually to determine  
8 that the conditions for the late mandate under  
9 Sections 507(e) and (g) were not met, DOE would be  
10 required by Section 509 of the Act to submit to  
11 Congress recommendations for possible requirements  
12 or incentives applying to the fuel suppliers,  
13 vehicles suppliers and motorists that would achieve  
14 the goals."

15 I would say from my perspective in this  
16 in trying to make this work and talking to  
17 everybody I can find who was also doing the same  
18 thing, that you ought to skip straight to that  
19 step. We ought to be doing that now. Let's forget  
20 about the mandates, particularly with fleets,  
21 because you're talking about dropping the bucket  
22 overall trying to meet the 10 percent and 30  
23 percent reduction.

24 There are certainly some things that can  
25 be done, and I offer a few suggestions for you I

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1 think you ought to be considering now. Just skip  
2 discussion about mandates and stop saying we might  
3 do this later, because all that does is it keeps  
4 fleets on the edge the whole time. We're saying,  
5 well, maybe we should be planning on doing this,  
6 and then we turn and find out, well, we're not  
7 going to have a rulemaking; and then, you know,  
8 we'll be going through this in a few year. We'll  
9 be saying, well, maybe we're going to do this  
10 again; and then, you know, it either comes through  
11 or it doesn't.

12 But if we stop discussing a strategy that  
13 does not seem like it's going to be productive and  
14 start dealing with the real issues at hand, which  
15 we've discussed here today -- I think the previous  
16 two speakers have addressed them well also -- then  
17 we can move on with a coordinated policy with the  
18 EPA and the Clean Air Act, DOE and the Energy  
19 Policy Act, the Traffic Safety Administration to  
20 get the tax laws straight, and deal with it as an  
21 entire package and move towards it.

22 I personally acknowledge the fact that  
23 our energy deficit, what we're importing in oil, is  
24 one of the major concerns of this country, and the  
25 problem is that people don't know about it. People

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1 don't acknowledge the fact that we have this  
2 economic crisis looming over the horizon, and those  
3 who have been doing the research on it have been  
4 living it, knowing that that's a problem. But our  
5 actions are at the federal level, and the problem  
6 is the will of the people is inconsistent with what  
7 we're saying we want to accomplish.

8 If what we want to accomplish is to  
9 reduce the amount of imported oil, then everything  
10 we do national policywise is contradictory to  
11 that. Number one, in the '70s we had our first oil  
12 crisis. It hit everybody. Everybody was talking  
13 about it. We went to smaller cars. We cut down  
14 the speed limit. We started looking into voluntary  
15 means of conservation.

16 Well, some of the things -- you know,  
17 some of the answers that Congress came up with have  
18 had some effect, but, you know, where are we now?  
19 Prices have been stabilized. What did we have to  
20 do to stabilize them? The last presidential  
21 election year we ended up fighting a war to protect  
22 our oil reserves. You know, we fight a war to  
23 protect our oil reserves. So what message does  
24 that send? It sends that we want -- we're addicted  
25 to cheap oil. That's what it says. We're willing



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1 to do whatever it takes to keep our oil cheap.

2 So here we are next election year, and  
3 what happens this year? We have a spike in oil  
4 prices in the spring, and everybody starts crying,  
5 oh, it's a conspiracy. So the reaction is we dump  
6 out of the national strategic reserves and we  
7 repeal a tax on fuel to lower the price of oil.

8 The only way that alternative fuel is  
9 going to become a viable alternative for us is to  
10 widen the gap between conventional fuels and  
11 alternative fuels; and if that's not -- if that's  
12 allowed to happen naturally through the market  
13 process, then this will eventually all take care of  
14 itself, because as the shortage of oil occurs, then  
15 we will start turning to these internal reserves.

16 The only reason oil became so prevalent  
17 in the transportation market today is because it  
18 was the cheapest alternative--ethanol's been around  
19 forever; biodiesel type products have been around  
20 forever; natural gas has been around forever--so  
21 that's the only thing we needed to worry about.

22 Okay. I'm out of time, so I'll conclude.

23 MR. RODGERS: Chris, thank you very  
24 much for your comments. One quick question.  
25 Because the EPACT mandates focus on centrally

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1 refueled fleets, are you convinced that the  
2 infrastructure is going to be a serious issue for  
3 fleets that don't have to refuel out in the rural  
4 areas but only have to refuel once a day at their  
5 central location?

6 MR. AMOS: Well, central refueling  
7 is almost a misnomer. I mean, the city of  
8 St. Louis is not that large. I mean, you can  
9 drive -- you know, it's 20 miles end to end, just  
10 where my fleet operates, my 2800 vehicles are in  
11 there. But for conventional fuels, for diesel and  
12 gasoline, we've got 10 fuel sites, because they're  
13 located where the people work, because those  
14 vehicles don't travel clear across town.  
15 Currently, we only have one single natural gas site  
16 in the city limits. Our gas company, our local  
17 utility and Shell Oil Company have gotten together  
18 and are putting one in for us this year, and that's  
19 going to allow us to move to CNG for the first  
20 time.

21 But, you know, how many vehicles is it  
22 going to take economically for them to do that?  
23 You're talking about police vehicles and utility  
24 vehicles and dump trucks and everything else. You  
25 know, we're going to try trash trucks working on

0051

1 natural gas. The issue becomes how far are you  
2 willing to go and how much time are you willing to  
3 waste trying to get to it.

4       So even in a case where you've got a  
5 small geographic area, relatively speaking, and my  
6 vehicles hardly ever go out, you know, of town,  
7 still, how many sites do I have to have to work?  
8 For conventional fuel we've invested for 10. Now,  
9 to build 10 compressed natural gas sites or propane  
10 sites, you're talking about a major capital  
11 investment; and it's taking, you know, the efforts  
12 of some great men and lot of dollars and lots of  
13 screaming at high levels to get one put in.

14       So it can be overcome. It can be  
15 overcome. The problem is there really is no  
16 incentive to overcome it at this point. As soon as  
17 we guarantee them, we will use them. I'm sure that  
18 the infrastructure will get built.

19       MS. LEWIS: I appreciate your  
20 comments. Are you going to submit written comments  
21 for the record other than what we have here?

22       MR. AMOS: I had planned on  
23 submitting some personally, yes.

24       MS. LEWIS: Because I would like to  
25 know exactly some of the -- if you would embellish

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1 on the problems that you might have with your  
2 infrastructure, coming out of your perspective,  
3 just for us to get a better feel for what problems  
4 we will have to deal with as well as what you're  
5 dealing with, if we go to a rulemaking.

6       And speaking of the rulemaking, I think  
7 you mentioned something about law enforcement  
8 vehicles. The Act does allow the Secretary to  
9 include law enforcement vehicles if we go to what  
10 we call a later rulemaking under Subsection (g).  
11 Also we can include urban buses under this  
12 particular rulemaking, if we do so by determining  
13 whether we would want to do that.

14       MR. AMOS: Well, our police  
15 department is voluntarily using -- actually,  
16 they're in the process of procuring natural gas  
17 vehicles for the first time, and our bus company,  
18 Bi-State Development Agency, has voluntarily moved  
19 towards using CNG buses. They've used two of them  
20 for the last four years now, and their plan is to  
21 have 200 of them in place by the year 2000. So  
22 there are definitely applications for this, and  
23 there are definitely success stories to be shared.

24       And I guess I've got one parting  
25 comment. I can say that I think the Clean Cities

0053

1 Program is probably the best thing that's come out  
2 of Washington in years. Take that from a cynic.  
3 You spend very little money and get a lot of good  
4 out of it in terms of valuable framework for those  
5 of us who are interested in solving this problem to  
6 work together, and it keeps us in a position where  
7 we can share information amongst each other through  
8 an organized network, and it allows us any time  
9 somebody else shows some interest to be able to  
10 share that information with them. So the work DOE  
11 is doing in that regard is very much appreciated  
12 from my perspective.

13 Since Clean Cities Program was  
14 established, it's been a whole lot easier for me to  
15 communicate and get information than it was  
16 previous to that. The two years I spent before the  
17 Clean Cities Program was just like -- it was  
18 mind-numbing trying to find information on the  
19 topic, so thank you for your efforts in that  
20 regard.

21 MR. RODGERS: Thank you very much,  
22 Chris. Thank you for those kind words. Our next  
23 speaker is Mr. Jim Moore. And I just would advise  
24 folks that you have no obligation to stick around  
25 after you've given your testimony. You're welcome

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1 to stay and participate again, but you don't have  
2 to.  
3 MR. MOORE: Good morning. My name  
4 is Jim Moore. I'm president of the Alternative  
5 Fuels Division of Lone Star Gas Company here in  
6 Dallas. I'm appearing on behalf of the Natural Gas  
7 Vehicle Coalition, and also I'm appearing on behalf  
8 of our company that's in this business.

9 The coalition has more than 200 corporate  
10 members, and we believe that our nation must  
11 achieve energy security goals identified in the  
12 Energy Policy Act of 1992. I want to talk a little  
13 bit about energy security. Over the last 10 years,  
14 domestic crude production has fallen by 2.2 million  
15 barrels per day while the imports have risen by  
16 3.1 million barrels per day. In the first six  
17 months of this year, the rate of decline of U.S.  
18 crude production has doubled.

19 DOE forecasts that by the year 2005, 60  
20 percent of U.S. oil will be imported at a cost of  
21 nearly \$100 billion. By 2010 the transportation  
22 sector is estimated to consume 14.1 million barrels  
23 per day, which is 9 million barrels per day more  
24 than is produced domestically. The U.S.  
25 transportation sector will consume nearly 15

0055

1 percent of the entire world consumption of oil, and  
2 most of this oil will come from OPEC states, from  
3 Saudi Arabia, Iran, Iraq and Kuwait, the leading  
4 producers; so we obviously have an increasing  
5 energy security problem. So for these reasons I  
6 don't think that we need to review why the Energy  
7 Policy Act was passed, and I don't think we need to  
8 dwell further on current events in the Middle East  
9 to point out why a strong energy policy is  
10 essential. We simply cannot afford to allow  
11 another major oil crisis to catch us unprepared.

12 The environment. In addition to our  
13 energy security problems, the increased use of  
14 gasoline and diesel fuel present a compelling  
15 challenge to our goal of clean air. The DOE has  
16 reported that transportation energy use is the  
17 nation's largest source of air pollution, with  
18 highway vehicles accounting for 26 percent of the  
19 U.S. emissions of volatile or organic compounds, 32  
20 percent of oxides of nitrogen, with these two being  
21 the principal precursors of ozone pollution in  
22 urban areas, and 62 percent of total carbon  
23 monoxide emissions. Here in the Dallas/Fort Worth  
24 area, for example, two-thirds of our pollutants  
25 come from vehicular sources, and we're just before

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1 being reclassified from moderate to serious ozone  
2 level attainment.  
3 The EPA is in the process of preparing  
4 deficiency and noncompliance notices to many states  
5 regarding their failure to achieve Clean Air Act  
6 milestones for reducing ozone pollution, and more  
7 specifically, a recent study estimated that there  
8 were more than 60,000 premature deaths each year  
9 related to particulate emissions from the use of  
10 diesel fuels.

11 So unless we want to annually send  
12 \$100 billion abroad mostly to OPEC countries,  
13 unless we want to remain highly vulnerable to  
14 another devastating oil embargo, unless we want to  
15 continue to spend millions of dollars in military  
16 expenditures to protect oil imports and unless we  
17 want ours and our children's lives adversely  
18 affected by continued high levels of ozone and  
19 other kinds of pollution, we must get serious and  
20 act now.

21 And I want to make a case now for natural  
22 gas. 87 percent of the natural gas consumed in the  
23 United States is from U.S. sources. The remainder  
24 is largely from North American sources. With  
25 increased use of this domestic product, we'll see

0057

1 domestic jobs creation. And there is ample gas  
2 supply for this endeavor. Two million NGVs, for  
3 example, would increase gas consumption by only  
4 five percent.

5 Natural gas vehicles are clean. Vehicles  
6 dedicated to run on natural gas produce emissions  
7 far below the standards set for a number of  
8 pollutants, including carbon monoxide, reactive  
9 hydrocarbons and particulates, and NGVs are far  
10 cleaner with respect to a number of so far  
11 unregulated pollutants such as toxics.

12 NGVs are not a new exotic technology. In  
13 fact, in many cases they are the vehicles that we  
14 drive today: Chrysler minivans, Ford Econoline  
15 vans, the Contour, the Civic and other popular  
16 models and types. And they are becoming more and  
17 more consumer friendly. On a national basis, with  
18 over 1100 public fueling sites and three new sites  
19 added each week, the infrastructure is growing.

20 Now, I just want to briefly talk a little  
21 bit about what we're doing here in the D/FW  
22 Metroplex at Lone Star. We have 23 public and  
23 private stations with five more under construction  
24 as we speak. We have about 3,000 natural gas  
25 vehicles on the roads in Dallas/Fort Worth, and our

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1 in CNG consumption is increasing annually.  
2 This all sounds good, but you know what?  
3 We're still not making money, and I think this is  
4 true of our entire industry. Why? Because we  
5 cannot get to the critical mass level that is  
6 essential to make this a commercial business. So I  
7 want to briefly talk about some barriers to the  
8 commercialization of the whole alternative fuels  
9 business, not just natural gas.

10 The biggest one, I think, is incremental  
11 cost difference. Whether we convert vehicles to  
12 run on alt fuels or whether we buy them from the  
13 OEMs, there is a substantial cost difference that  
14 precludes almost any economic case other than very  
15 high fuel use applications. This cost difference  
16 leads to an absence of sufficient demand to support  
17 mass production.

18 We also have a barrier of the failure of  
19 the federal government to provide the lead market.  
20 And then we have the bizarre tax policy related to  
21 LNG. This clean domestic fuel, which is simply  
22 natural gas in liquid form rather than gaseous form  
23 is taxed at a rate nearly twice that of dirty  
24 imported fuels.

25 So what can the government do to help?

0059

1 Mainly provide economic incentives. We don't  
2 support mandates either, but we think economic  
3 incentives are the way to go, economic incentives  
4 that in the end will return more to the government  
5 than they cost. This is new revenue from increased  
6 domestic economic activity and lower expenditures  
7 for pollution related health problems.

8       The amount of financial support required  
9 from the government will be more than offset by  
10 reduced environmental, health and energy dependence  
11 costs and is only a fraction of the amount of money  
12 that would be spent if we're faced with another oil  
13 crisis.

14       And we're not talking about funding these  
15 fuels indefinitely. Once economies of scale are  
16 achieved, the incremental cost of developing  
17 alternative fuel vehicles will come down. So what  
18 we're really talking about, I think, is a  
19 five-or-six-year push to make this a reality. The  
20 government can support R&D efforts in partnership  
21 with the private sector, and that government can  
22 set the tone for the nation that we must together  
23 reduce dangerous levels of oil imports.

24       So what have we said? The private sector  
25 is prepared to invest literally billions of dollars

0060

1 in natural gas vehicles and other alternative fuel  
2 vehicles and the related infrastructure. We're  
3 well on the way now. But this investment will  
4 ultimately depend on whether the government will be  
5 a partner in the early risk associated by this  
6 market. Without federal support in the form of  
7 economic incentives, a commercial alternative fuels  
8 industry will not develop. The higher incremental  
9 cost and market impediments will not be overcome,  
10 and the things that we heard this morning about the  
11 technology issues that are real will not be  
12 overcome.

13       So the government must support  
14 alternative fuels at least until the market price  
15 of transportation fuels adequately reflects their  
16 true cost in terms of energy security,  
17 environmental quality and economic stability. The  
18 incentives that we call for will pay for themselves  
19 in a very short time. We urge your help. Thank  
20 you.

21       MR. RODGERS: Thank you very much,  
22 Jim. One question for you. We heard some comments  
23 about infrastructure and refueling. Is it your  
24 impression as an energy company that we could  
25 provide the infrastructure needed to meet the

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1 requirements of fleets and other users of  
2 alternative fuels.  
3 MR. MOORE: I think if there are  
4 proper economic cases to be made, I think that fuel  
5 providers such as Lone Star Gas Company in the  
6 metropolitan areas will provide the  
7 infrastructure.

8 Now, this lends itself to fleets. I  
9 don't see in my few short years left in my  
10 corporate life this getting out to the individuals  
11 to drive across the country, but I think certainly  
12 the infrastructure in our major cities where most  
13 of the pollution occurs will not be a problem.

14 MR. RODGERS: Okay.

15 MS. LEWIS: I'd like to ask you a  
16 question, I think, on page 10 of your comments  
17 here. You're talking about what the government can  
18 do as far as incentives. One of the things that  
19 keeps running in my mind when I hear you and other  
20 people talk about our programs, we're targeting --  
21 I should say Congress targets certain groups, state  
22 governments, and now we're targeting fleets,  
23 private fleets, local government. But one of the  
24 things I don't hear people really talk about is if  
25 we the public see alternative fuel vehicles out

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1 here on the road and we understand the benefits  
2 that we receive, energy security, et cetera, et  
3 cetera, then if you, the fleet owners, are buying  
4 the vehicles and we, the public, don't see problems  
5 occurring with these vehicles no more than we see  
6 with our own vehicles we have now, the  
7 conventionally run ones; then the public, it seems  
8 to me, would be very much interested in purchasing  
9 these types of vehicles when they understand the  
10 purpose of buying a vehicle such as natural gas,  
11 propane, methanol and so forth.

12 But I don't hear that thread coming from  
13 these entities that come under the program, and I  
14 think that was the intent of Congress. If we get  
15 these vehicles out there, we're going to create  
16 markets, create jobs, additional jobs and so forth,  
17 but more importantly we're creating inner security,  
18 as the first speaker indicated, that we won't have  
19 to send our boys and girls over to some country to  
20 defend some oil field and so forth. But when we  
21 get to that point, I think we'll be much better  
22 off.

23 That's just a comment that I'm making,  
24 not saying that this is the way that everything  
25 should be run, but I just think that I don't hear

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1 that coming from fleet operators or providers or  
2 what have you. I understand the business point of  
3 view.

4 MR. MOORE: Let me address that, and  
5 we're concentrating mainly on fleets from a central  
6 location. But to the extent of marketing to the  
7 moms and pops of the world, what will work will be  
8 bifueled vehicles, and the OEMs produce bifueled  
9 vehicles. It could be bifueled natural gas and  
10 gasoline, so that if I start to Houston and I run  
11 out of natural gas, it switches automatically to  
12 gasoline. I still have fuel, and I run on gasoline  
13 until I get to another fueling station.

14 I don't see the day when there's going to  
15 be alternative fuel stations up and down the  
16 highways like there is gasoline, not in my  
17 lifetime. That's why we're focusing on fleets, and  
18 I think that's where we can make the biggest bang  
19 for the buck right now from a pollution and  
20 environmental standpoint.

21 MR. RODGERS: Thank you very much,  
22 Jim. Our next speaker is Jeffery Horvath. Is Jeff  
23 here?

24 MR. HORVATH: Good afternoon. My  
25 name is Jeff Horvath. I am the chief executive

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1 officer of the national biodiesel board, NBB. I  
2 come here today from Jefferson City, Missouri. The  
3 National Biodiesel Board is a stakeholder directed  
4 and funded organization dedicated to creating  
5 viable commercial markets for biodiesel in the  
6 United States and abroad. Farmers, fuel producers,  
7 engine manufacturers, academia and others volunteer  
8 their time and expertise to guide the NBB's  
9 investments in biodiesel research and market  
10 development.

11 I am here today to discuss biodiesel, an  
12 exciting renewable alternative fuel for diesel  
13 engines that is derived from various feedstocks,  
14 such as vegetable oil, rendered animal fats and  
15 used cooking oil. I will also explain why a 20  
16 percent blend of biodiesel with diesel fuel, known  
17 as B20, can and should be included as a separate  
18 alternative fuel under the Energy Policy Act of  
19 1992.

20 B20 will allow municipal and private  
21 fleets greater flexibility to comply with the third  
22 phase of the alternative fuel transportation  
23 program. Increased use of biodiesel and B20 will  
24 be good for the environment, good for the farmers,  
25 good for the economy and will augment the ability



0065

1 of regulated fleets to meet the goals of EPACT.  
2 Including B20 as an EPACT alternative fuel is  
3 directly aligned with the congressional intents of  
4 EPACT. Biodiesel alternative fueled vehicles offer  
5 a cost-effective means of compliance with many of  
6 the provisions of EPACT, and biodiesel is  
7 complementary to both the diesel engine  
8 manufacturers and petroleum company interests.

9 Biodiesel provides additional  
10 opportunities for economic development through the  
11 sale of its various feedstock commodities and  
12 construction of biodiesel production facilities.  
13 All in all, biodiesel and B20 can and should play a  
14 major part in meeting the goals of EPACT.

15 Biodiesel is the generic term for a  
16 cleaner burning ester-based fuel for diesel engines  
17 that is derived from renewable organic oils, such  
18 as soybean or rapeseed oil. While the biodiesel  
19 industry is relatively new in the U.S., biodiesel  
20 has been used in Europe on a commercial basis for  
21 many years.

22 Under current EPACT regulations, by the  
23 year 2001, 75 percent of all affected federal and  
24 state government vehicle purchases and 90 percent  
25 of all affected fleet vehicle purchases by private

0066

1 and alternative fuel suppliers are supposed to be  
2 alternative fueled vehicles. Future EPACT  
3 regulations will extend similar vehicle purchase  
4 requirements to municipal and other large private  
5 company fleets starting in the year 2002.

6 When the Department of Energy first  
7 published its EPACT regulations in February of  
8 1995, there were few provisions that would benefit  
9 biodiesel. To correct this the biodiesel industry  
10 asked DOE to amend these regulations and allow for  
11 greater involvement by biodiesel and biodiesel  
12 alternative fueled vehicles. DOE was asked to  
13 include B20 as a separate alternative fuel under  
14 EPACT; however, DOE has so far declined to include  
15 any biodiesel/diesel blend, such as B20, as an  
16 EPACT alternative fuel in the final regulations.

17 On September 10th of this year the  
18 National Biodiesel Board and 23 other copetitioners  
19 presented the Secretary of Energy, Hazel O'Leary,  
20 with a 99-page petition asking DOE to include B20  
21 as an EPACT alternative fuel. We strongly believe  
22 that we have put together a solid case based on  
23 scientific research, legislative history, consumer  
24 support and demonstrated benefits of B20 that will  
25 clearly justify a DOE decision to include B20 as an

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1 EPACT alternative fuel.

2 First, biodiesel has important  
3 environmental benefits. Biodiesel is registered  
4 with the Environmental Protection Agency as a fuel  
5 and a fuel additive. Scientific evidence  
6 demonstrates that B20 reduces harmful exhaust  
7 emissions compared to other conventional diesel  
8 fuel. Today, nearly 6 billion tons of carbon  
9 dioxide and other heat-trapping greenhouse gases  
10 are released into the atmosphere every year. The  
11 United Nations Intergovernmental Panel on Climate  
12 Change estimates that the average global surface  
13 temperature may rise by as much as 3.6 degrees  
14 Fahrenheit by the year 2100 if greenhouse gases  
15 emissions are not controlled. This would cause a  
16 significant alteration in the current climate  
17 patterns.

18 Designating B20 as an alternative fuel  
19 would address several concerns related to the  
20 global effects of climate change presented in the  
21 United Nations report as well as help meet  
22 President Clinton's national goals for the net  
23 reduction of greenhouse gas emissions outlined in  
24 the administration's climate change action plan.  
25 As a renewable fuel derived from organic materials,

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1 biodiesel and blends of biodiesel, such as B20,  
2 reduce the net amount of carbon dioxide in the  
3 biosphere.

4 In May 1996 a NESCAUM review panel  
5 examined an estimate of the potential displacement  
6 of carbon dioxide that could be achieved by  
7 utilizing B20 with catalytic exhaust aftertreatment  
8 of buses of just 12 major urban bus transit systems  
9 in the northeastern corridor United States. The  
10 NESCAUM review panel examined these estimates as  
11 part of the process for approval of a protocol to  
12 generate discrete emissions reduction credits using  
13 B20. The protocol examined and approved by NESCAUM  
14 demonstrated that utilizing B20 in these 12 bus  
15 fleets could produce more than 30,000 tons of  
16 carbon dioxide reductions annually.

17 Secondly, B20 has substantial economic  
18 development and national energy security benefit.  
19 A renewable fuel like biodiesel offers farmers and  
20 other feedstock producers stable, long-term markets  
21 for efficiently produced agricultural products.  
22 Biodiesel also means jobs and local tax revenues  
23 from processing a greater portion of our domestic  
24 agricultural products here in the United States.  
25 Use of domestic biodiesel improves national energy

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1 security by directly displacing this imported  
2 energy.

3       Third, including biodiesel as an  
4 alternative fuel fits squarely with the original  
5 intent of EPACT. When EPACT was considered in  
6 1992, legislative history shows that Congress  
7 clearly intended that EPACT should be fuel  
8 neutral. Fuel neutral simply implies that there  
9 should be no presumption in the law of favoring any  
10 particular alternative fuel over another as a means  
11 of compliance with the goals of EPACT. Congress  
12 incorporated fuel neutrality into EPACT to give  
13 regulated fleets the flexibility to decide which  
14 alternative fuels and vehicles are most compatible  
15 with their operations. Therefore, if we examine  
16 this issue on the basis of consumer choice for  
17 alternative fuels and vehicles, B20 would be  
18 determined an appropriate EPACT alternative fuel.

19       To date, B20 is our most popular  
20 biodiesel fuel blend tested with major diesel  
21 consumer and engine manufacturers. B20 provides  
22 many of the environmental and safety benefits of  
23 pure biodiesel at a fraction of the cost. B20 is  
24 also compatible with existing diesel engine  
25 maintenance and refueling facilities. Thus,

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1 there's an adequate infrastructure in place to  
2 support B20's immediate use. More than 10 million  
3 miles of actual in-service pilot programs have been  
4 conducted using B20. Several national trade  
5 associations representing major and private diesel  
6 consumers, including the American Trucking  
7 Association and the American Bus Association, have  
8 endorsed including B20 as an EPACT alternative  
9 fuel. For these reasons, B20 should substantially  
10 increase the number of alternative fueled vehicles  
11 available to meet the requirements of the EPACT  
12 program.

13       Additionally, the National Biodiesel  
14 Board believes that the designation of B20 directly  
15 supports the replacement fuel program goals of  
16 EPACT Section 502(a) and (b). Conversely, NBB also  
17 believes that failure by DOE to designate B20 as an  
18 alternative fuel would not only contradict the  
19 stated goals of 502(a) and (b); it would also make  
20 the achievement of these goals significantly more  
21 difficult and more expensive.

22       Specifically designating B20 as an EPACT  
23 alternative fuel meets the goals of the replacement  
24 fuel program in the following ways:

25       Designating B20 as an alternative fuel

0071

1 will allow greater opportunity for compliance with  
2 the fleet AFV requirements. Designating B20 as an  
3 alternative fuel will allow for greater accuracy in  
4 assessment as to whether existing voluntary and  
5 mandatory programs are sufficient to meet  
6 replacement goals.

7       It will allow for greater utilization of  
8 fuel-efficient biodiesel-compatible diesel  
9 technology in government and regulated fleets, thus  
10 increasing the capacity to utilize domestically  
11 produced biodiesel in fleet vehicles while  
12 mitigating some of the risk associated with future  
13 uncertainty in price and availability of petroleum  
14 fuels.

15       Designating B20 as an alternative fuel  
16 will encourage the state and local alternative fuel  
17 programs to utilize more biodiesel in their  
18 programs, and it will provide a measurable benefit  
19 to the environment, economic development and  
20 reduction of greenhouse gas emissions.

21       In conclusion, in March a special awards  
22 ceremony in Chicago. This was an important  
23 milestone for the biodiesel industry. The  
24 Secretary of Energy, Hazel O'Leary, personally  
25 presented an Energy Pioneer Award to the Columbus

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1 Foods Company, a family owned and operated business  
2 that specializes in the packaging, sale and  
3 distribution of vegetable oils for restaurants and  
4 their customers. Secretary O'Leary honored  
5 Columbus Foods for their commitment to construct a  
6 state-of-the-art production facility that would  
7 convert would-be waste cooking oils and animal fats  
8 into environmentally friendly biodiesel.

9       All of us at the National Biodiesel Board  
10 were proud that Columbus Foods received this award,  
11 and we frankly believe that all of the pioneering  
12 entrepreneurs who have risked their time and  
13 capital to create the biodiesel industry in the  
14 U.S. deserve similar recognition. However, all the  
15 awards in the world to individuals or companies for  
16 their achievements in producing biodiesel aren't  
17 going to mean a thing unless there are viable  
18 commercial markets for our fuel.

19       The irony here is the Secretary of Energy  
20 has the authority under EPACT to do more than  
21 simply give our industry awards. She can give  
22 biodiesel a fighting chance to compete for its  
23 share of the alternative fuels markets created by  
24 EPACT, including the municipal and private fleets  
25 addressed by the advanced notice of public

0073

1 rulemaking, simply by initiating a rulemaking  
2 process to include B20 as an EPACT alternative  
3 fuel.

4 Including B20 as an EPACT alternative  
5 fuel will benefit the environment, farmers, the  
6 economy and the municipal and private fleets that  
7 must comply with EPACT. It would also be in  
8 keeping with the goals of the replacement fuel  
9 program and the basic spirit and legislative intent  
10 of EPACT. It is a proposal that's a win-win for  
11 everyone.

12 I'd like to thank you for the opportunity  
13 to address these issues today. I would be happy to  
14 answer any of your questions.

15 I would like to point out a couple of  
16 things before I go on, some of the points that were  
17 made today:

18 Biodiesel does not require an  
19 infrastructure change. You can use existing  
20 facilities that are out there right now. With all  
21 due respect to my brother from St. Louis, because  
22 I've worked long and hard on research programs with  
23 biodiesel, and my state has nearly a million miles  
24 of operation with our buses using their existing  
25 facilities for fueling. The power and range issues

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1 are not an issue. It's the same as you would get  
2 with a regular diesel engine. The availability of  
3 models of vehicles is the same as it would be for  
4 any other diesel product.

5 The number one barrier of infrastructure  
6 is -- I guess what I'm trying to talk to is really  
7 not a barrier. Blended fuels like B20 provide the  
8 economics that today biodiesel has been greatly  
9 challenged with.

10 MR. RODGERS: Thank you very much.

11 MS. LEWIS: I don't have any  
12 questions.

13 MR. RODGERS: Okay. Thank you. Our  
14 next speaker is Tom McDonald. I would just like to  
15 make a general comment. Right now we are running  
16 about a half hour behind the printed schedule. We  
17 will hear everyone's comments. As your public  
18 servants, we will be here all day if necessary to  
19 hear you, but we will not be taking a lunch break.  
20 So if you do need to get some lunch and you're on  
21 the schedule for later, I welcome you to do that,  
22 and we will work you in, so I appreciate that.  
23 Tom, thank you very much.

24 MR. McDONALD: Thank you. Good  
25 morning. My name is Tom McDonald, and I'm the

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1 energy and tax issues manager for the North  
2 American Marketing and Refining Business Operations  
3 of Mobil Oil Corporation. Mobil oil has  
4 significant interest in the Department of Energy's  
5 proposed private and municipal fleet rule. We  
6 operate vehicles in the state of Texas and  
7 throughout much of the United States.  
8 Additionally, the proposed rule could have  
9 significant adverse impacts on many of our fleet  
10 customers in both the private and local government  
11 fleet sectors.

12 Let me open by explaining that Mobil  
13 Corporation subsidiaries and affiliates are not  
14 just oil and petroleum producers. Some are energy  
15 producers and fuel suppliers capable of supplying  
16 energy needs in many forms to meet the demands of  
17 industry and the American public for the  
18 foreseeable future. We and other major integrated  
19 energy companies have large reserves of natural  
20 gas. Methanol is made from natural gas. Propane  
21 is a by-product of the oil and gas production  
22 process as well as petroleum refining process.

23 Mobil Oil and many other companies have  
24 test-marketed and are test-marketing alternative  
25 fuels like M-85 in California and CNG, or

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1 compressed natural gas, in many other areas. Mobil  
2 Oil also uses ethanol as an oxygenate in markets  
3 where it makes economic sense.

4 Alternative fuels can be useful and  
5 sometime economic, especially for niche markets  
6 like high-milage fleets that are capable of being  
7 centrally fueled. We do not oppose the use of  
8 alternative fuels and utilize these fuels when the  
9 economics are favorable.

10 Mobil Oil has many specific comments to  
11 the notice of proposed rulemaking, which we will  
12 detail in our written comments. Today I'll  
13 highlight some of the major concerns.

14 Mobil Oil Corporation opposes mandates  
15 and subsidies for alternative fuels. Mandating  
16 specific fuels and vehicles or the subsidization of  
17 selected fuel-vehicle combinations provides little  
18 or no service to anyone except for the individuals  
19 that sell them. Collectively, alternative fuels  
20 are not currently cost-effective. If they were,  
21 the market would already have recognized this and  
22 moved to fulfill the demand for them.

23 We believe that all fuels should compete  
24 on a level playing field. DOE's advanced notice of  
25 proposed rulemaking for private and municipal

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1 fleets could result in a mandate for fleets to  
2 purchase or lease an ever-increasing percentage of  
3 alternative fuel vehicles or AFVs. In effect, this  
4 is an unfunded mandate for alternative fuel use  
5 with absolutely no credibly documented cost-benefit  
6 analysis.

7       Some might point to DOE's Phase I report  
8 of the 10/30 study as proof of alternative fuel  
9 benefits. To those who cite this report as proof,  
10 I urge you to take a closer look at the report.  
11 The report assumes that by 2010 alternative fuels  
12 and the vehicles that run on them will be widely  
13 available and cost-competitive with conventional  
14 fuels. That is quite an assumption. If AFVs and  
15 their fuel were cost-competitive, why wouldn't 50  
16 percent of the market be buying them already? Why  
17 would a fleet mandate even be necessary?

18       What is missing from the report is what  
19 it might cost private businesses, U.S. taxpayers  
20 and the economy itself to make a reality out of  
21 DOE's generous assumptions. In essence, what the  
22 report does is extol the purported benefits without  
23 regard for the costs.

24       Incidentally, the largest share of the  
25 reported benefits of expanded AFV use is from what

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1 DOE attributes to an increase in consumer  
2 satisfaction resulting from an increase in a choice  
3 of fuels and vehicles. What choice? The proposed  
4 rulemaking that prompted this hearing is not about  
5 choice. It's about mandates.

6       DOE is in the process of conducting  
7 Phase II of the study, which purportedly will  
8 estimate the cost of achieving the assumptions made  
9 in Phase I. While examining the cost is  
10 commendable, we find it inequitable that the  
11 Department chose to release Phase I of the report,  
12 which extols the benefits, without first examining  
13 the costs so that a true and fair evaluation could  
14 be made.

15       Let me switch gears for a moment and talk  
16 about the law behind DOE's advanced notice of  
17 proposed rulemaking. The statute shows that  
18 Congress intended that a private and municipal  
19 fleet rule would only be promulgated if the  
20 Secretary of Energy could make several affirmations  
21 to Congress. One of the affirmations that must be  
22 made by DOE is that the 10 percent and 30 percent  
23 replacement fuel goals contained in EPACT were  
24 practical and actually achievable. The Act's goals  
25 include a requirement that 50 percent of the

0079

1 replacement fuels be from domestic sources.

2       We question the practicality of the 30  
3 percent goal and also would like to point out that  
4 DOE's own Phase I study that I referred to earlier  
5 indicates that if a significance displacement of  
6 petroleum occurs in the transportation sector, it  
7 is likely to come from imported liquefied petroleum  
8 gas or imported methanol. Trading imports of one  
9 fuel for another does not seem to provide any  
10 benefit to national security, especially when the  
11 likely sources of propane and methanol are  
12 identical to the sources of petroleum.

13       Additionally, we believe that the  
14 benefits attributed to the increased use of  
15 alternative fuels are overstated. An American  
16 Petroleum Institute analysis shows that no AFVs  
17 currently pass the cost-benefit test under  
18 reasonable assumptions for AFV and alternative fuel  
19 costs versus the claimed benefits for environment  
20 and energy security.

21       For municipalities this proposal amounts  
22 to an unfunded mandate that would require them to  
23 purchase alternative fuel vehicles when even the  
24 federal government has struggled to meet its own  
25 alternative fuel vehicle goals set forth in the

0080

1 Act.

2       Our country's experience with programs  
3 like EPACT mandates that allow the government to  
4 intrude into the marketplace is not good. One does  
5 not have to go back far in history to find examples  
6 like the Synthetic Fuels Corporation of the 1980s  
7 or the price controls of the '70s. The difference  
8 is that DOE has an opportunity to correct this  
9 mistake before the proposed mandate is implemented  
10 and the public and private sector are forced to  
11 spend valuable capital on an inefficient and  
12 unnecessary program.

13       DOE has options other than mandating that  
14 municipalities and private businesses buy expensive  
15 AFVs in order to reach a goal that is neither  
16 economically attainable nor practical. Congress  
17 envisioned such a possibility when EPACT was  
18 written. Section 504 of that statute allows the  
19 Secretary of Energy to modify the replacement fuel  
20 goals downward and to extend the deadline by which  
21 those goals must be met, if the original goals are  
22 deemed to be technically or economically  
23 ill-advised.

24       We oppose any attempt to force our  
25 economy to meet the original goals of EPACT if that



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1 action disregards the costs involved. We urge the  
2 Department to instead expend its energy on doing a  
3 scientifically sound peer-reviewed assessment of  
4 the true costs of increased alternative fuel  
5 usage. We feel confident that if the study is done  
6 in an unbiased manner, the results will demand that  
7 the replacement fuel goals be lowered and the  
8 timetables for meeting those goals be extended as  
9 allowed under the law.

10 In summary, we believe that any  
11 confidence that the Department has about the  
12 feasibility of attaining the original replacement  
13 fuel goals in EPACT without resulting in  
14 significant adverse impact on the U.S. economy is a  
15 misplaced confidence. Those who claim that the  
16 regulated businesses and municipalities will not  
17 have difficulty meeting or could even exceed the  
18 program in the advanced notice of proposed  
19 rulemaking will either have few, if any, vehicle  
20 acquisition obligations or are alternative fuel  
21 suppliers who stand to gain by a mandate.

22 Such mandates and subsidies for  
23 alternative fuels are unnecessary and costly for  
24 the consumers and taxpayers. When these fuels  
25 become economic on their own, broader markets will

0082

1 naturally develop. In the meantime, efforts to try  
2 to encourage more widespread use of alternative  
3 fuels should be voluntary.

4 Thank you for the opportunity of sharing  
5 our views at this hearing.

6 MR. RODGERS: Thank you, Tom.  
7 Vivian, do you have anything?

8 MS. LEWIS: Yes. On one hand it  
9 seems you're saying we should not have mandates?

10 MR. McDONALD: Correct.

11 MS. LEWIS: But on the other hand, I  
12 think -- where is it? On page six you do indicate  
13 that the Act allows the Secretary to down -- to  
14 decrease the goals as well as the acquisition  
15 requirements.

16 So you're saying that if our report comes  
17 out and indicates that we do need some type of  
18 program in place, then you would support such a  
19 program?

20 MR. McDONALD: No. What we're  
21 saying is I think if the economic analysis is done  
22 in an unbiased manner that a reasonable goal and a  
23 reasonable timetable for meeting those goals will  
24 determine that, as some of the fleet associations  
25 have testified today, mandates are not going to be

0083

1 necessary; that the markets will develop  
2 naturally.

3 I also indicated early in my statement  
4 that there are niche markets for alternative fuels,  
5 high-milage, centrally fueled fleets, and there  
6 have been studies done by the Department of Energy  
7 as well as individual, outside consulting firms  
8 that show that there are fleets where, for  
9 instance, natural gas is economical because of -- I  
10 forget which fleet association testified, but they  
11 were talking about somewhere in the vicinity of 35  
12 cents to 40 cents per gallon less for fuel; which  
13 if you drive enough miles, that will pay back. And  
14 if you have central refueling, rather than relying  
15 on the public infrastructure or publicly available  
16 infrastructure, you can pay it out.

17 MS. LEWIS: Thank you.

18 MR. RODGERS: I just have one  
19 question, Tom. We've heard that the Transportation  
20 Secretary is very dependent on petroleum now, and  
21 we heard some folks talk about reliance on imported  
22 oil. I guess I would like to know Mobil's position  
23 on what kind of programs we could have that would  
24 help us meet the Energy Policy Act goals in  
25 particular to protect the American consumer from

0084

1 upswings in the price of gasoline. And I guess a  
2 follow-on would be do you think that alternative  
3 fuels adding a little competition to the  
4 transportation sector could help protect the  
5 consumer from gasoline price upswings?

6 MR. McDONALD: Well, one of the  
7 things I would say in answer to the price upswings  
8 is that petroleum -- and I'm not speaking of the  
9 end product gasoline, but petroleum is a globally  
10 traded commodity. The price of oil is going to  
11 move naturally with the market. It's not  
12 necessarily impacted any more by the United States  
13 than some other country that uses or several  
14 countries that use an equivalent amount, because we  
15 do use a lot. But that price is going to move  
16 globally.

17 I don't think that you're going to find  
18 significant moves in competition from other  
19 alternative fuels simply because it's being  
20 displaced. That petroleum will seek a level, a  
21 fair market level based on use throughout the  
22 world. If we are using more alternative fuels  
23 here, then the oil will be used by other  
24 countries.

25 That kind of has to tell you something.

0085

1 If alternative fuels are economic and if they are  
2 such a good deal, then why isn't the rest of the  
3 world moving to them as well? You have countries  
4 that use alternative fuels today. Netherlands uses  
5 a lot of propane as a vehicle fuel, but the  
6 difference is it is cost-competitive there with  
7 gasoline and diesel. It's a market thing. It's a  
8 market-driven issue.

9 And someone else made the statement --  
10 and I forget who it was. It may have been the  
11 gentleman from Lone Star that indicated that the --  
12 I'm sorry. I lost my train there. I'm sorry. I  
13 lost that one.

14 MR. RODGERS: We'll let you edit  
15 that for the record.

16 MR. McDONALD: Okay.

17 MR. RODGERS: No further questions.  
18 Thank you very much, Tom. Our next speaker is  
19 Mr. Wehman.

20 MR. WEHMAN: Good morning.

21 MR. RODGERS: Good morning.

22 MR. WEHMAN: I am here on behalf of  
23 the Petroleum Marketers Association of America, the  
24 PMMA, and the National Association of Texaco  
25 Wholesalers, NATW. Can you hear me all right?

0086

1 This is not for a normal-sized person to speak into  
2 the microphone.

3 I'm Bubba Wehman, and when I appeared  
4 before you in Washington, one or two of you took  
5 note of my nickname; and I will admit that I'm  
6 probably out of place with that nickname in  
7 Washington, but I'm in Texas now, and Billy Bob and  
8 I are really pleased to welcome both of y'all to  
9 Texas.

10 MR. RODGERS: Thank you very much.

11 MS. LEWIS: Thank you.

12 MR. WEHMAN: I am president of PMMA,  
13 I'm a past-president of NATW, and I'm also  
14 president of my company, Wehman, Incorporated.  
15 PMMA is a federation of 42 state and regional  
16 associations throughout the United States. It  
17 represents nearly 10,000 independent petroleum  
18 marketers. These marketers distribute over 40  
19 percent of the gasoline sold in the United States  
20 and 50 percent of the diesel. They also distribute  
21 propane, and many are now selling and distributing  
22 other alternative fuels, such as natural gas,  
23 ethanol and methanol. Wehman, Incorporated is a  
24 full-line petroleum distributorship marketing both  
25 Texaco and CITGO product lines in metropolitan and

0087

1 rural Texas.

2 We're deeply concerned with the proposal  
3 and the Department's consideration of a mandate for  
4 alternative fuels for private fleets. We continue  
5 to believe that mandates for private as well as  
6 local government fleets are improper and harmful to  
7 the economy. We believe that the Department of  
8 Energy should initiate proceedings to delay the  
9 imposition of a rule requiring alternative fuels in  
10 private fleets and should consider initiating steps  
11 to prevent the imposition of an alternative fuel  
12 mandate.

13 First, we would like to note that  
14 industry reports indicate that the proven supplies  
15 of oil is sufficient for approximately 45 to 50  
16 years. Estimated reserves would add approximately  
17 another 45 to 50 years. Thus it is possible that  
18 there will be sufficient reserves to last through  
19 the next century. Improvements and efficiency may  
20 extend that significantly.

21 Given the state of technology in 1896  
22 versus today, it is clear that we cannot anticipate  
23 the technological innovations that may occur over  
24 the course of the next century, which will have an  
25 impact on oil reserve, efficiency and demand.

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1 We believe that this evidence is  
2 sufficient to show that there will not be a need to  
3 convert to alternative fuels to avoid shortages of  
4 oil. We believe that this evidence is sufficient  
5 to encourage the Department to delay consideration  
6 of an alternative fuel mandate for many years.

7 We also believe that this evidence shows  
8 that the primary and perhaps strongest motivation  
9 for this rulemaking is unfounded. Forcing private  
10 industry to pay additional sums to buy more  
11 expensive vehicles and more expensive fuels is  
12 unnecessary. When these alternative fuels and  
13 their vehicles develop, and if they are more  
14 efficient and more capable than petroleum-based  
15 vehicles, private industry will rush to utilize the  
16 vehicles. And I suspect that my company along with  
17 others like me will rush to ensure that we are  
18 supplying fuel to those customers.

19 Section 507(g) indicates that nothing in  
20 this title should be construed to require any fleet  
21 to acquire alternative fuel vehicles or alternative  
22 fuels that do not meet the normal business  
23 requirements and practices and needs of that  
24 fleet.

25 This provision is contrary to the fleet

0089

1 mandate since fleet operators choose vehicles based  
2 on use requirements as well as the likely resale  
3 value of the vehicles. A fleet mandate almost by  
4 definition cannot conform to this requirement and,  
5 therefore, cannot be considered since such a  
6 mandate for a vehicle that can only be refueled in  
7 particular areas will greatly restrict the resale  
8 value of that vehicle.

9       A secondary issue involving an  
10 alternative fuel mandate is its potential impact on  
11 the environment, and the Department is considering  
12 its potential impact. First, we would note that  
13 electricity is classified as an alternative fuel;  
14 however, in many areas of the country, electricity  
15 is manufactured from the combustion of petroleum  
16 products. We are skeptical of how burning a higher  
17 volume of oil at power plants to produce  
18 electricity will lessen our dependence on oil. In  
19 fact, we cannot find a logic to support this view.

20       Another alternative fuel is liquefied  
21 petroleum gas. Again, this fuel is often  
22 manufactured from petroleum. How does converting  
23 people to this fuel save oil or increase energy  
24 security?

25       The effect on the environment of using

0090

1 these alternative fuels is uncertain, and in some  
2 cases may be adverse. A recent report published in  
3 "Environmental Science and Technology News"  
4 details the potential impact that a major  
5 conversion to electricity would have on the  
6 environment. It found that it would have very  
7 little impact on the environment and the risk of  
8 increased lead production and consumption is  
9 uncertain.

10       One of the most significant environmental  
11 achievements of the past 20 years is the  
12 elimination of lead from common use. Paints are no  
13 longer manufactured with lead, and gasoline no  
14 longer contains lead. These achievements have had  
15 a significant positive impact on children.  
16 Unfortunately, residual lead is still in the  
17 environment, and many children continue to be  
18 exposed to this residual lead.

19       Is it a wise policy to dedicate  
20 significant government and private resources to  
21 increase the amount of lead in the environment? Do  
22 we really need to harm the next generation of  
23 children in an illconceived effort to save a  
24 resource that does not need saving? Can we afford  
25 to wait until technology and science provide us

0091

1 with a battery that would not cause this type of  
2 harm to the environment? We believe that at a  
3 minimum a substantial delay in the program would  
4 allow these issues to be addressed.

5 Finally, an effort to convert one part of  
6 the fuel consuming universe to alternative fuels is  
7 somewhat anachronistic. The deregulation of  
8 natural gas and electricity has spurred innovation  
9 in the use of fuels and their distribution. In  
10 fact, many marketers are now entering into the  
11 business of marketing these fuels. Unfortunately  
12 for them, no one is mandating a particular fuel for  
13 a particular customer and that the customer buy it  
14 from them. Instead, they must find the best fuel  
15 for the customer at the best price, and they must  
16 deliver it to them efficiently. The actions of the  
17 Department of Energy would likely mean that these  
18 efficiencies would be reduced.

19 In today's new energy environment, fuels  
20 are being sold by the BTU. As a result, customers  
21 are buying fuel based on the cheapest BTU. As a  
22 result, the price differences between the competing  
23 fuels is likely to be small. This parity will  
24 ensure the customer uses the right fuel for the  
25 right purpose. Forcing the market to a particular

0092

1 fuel prematurely will distort the benefits and may  
2 lead to the purchase of vehicles that are less  
3 cost-effective. A company that is forced to buy a  
4 particular fuel before its natural advantages are  
5 discovered will be harmful to that business.

6 It is extremely difficult for a business  
7 to be profitable, to maintain employment for its  
8 employees and to contribute society through the  
9 payment of taxes. Saddling these businesses with  
10 the additional cost to achieve an unnecessary goal  
11 could very well undermine all these goals. Given  
12 Section 507(g), we do not think that to be the  
13 appropriate course for the Department to take.

14 A further and final point is the impact  
15 that the present environmental movement will have  
16 on the need to encourage the use for alternative  
17 fuel. Currently reformulated gasoline represents a  
18 significant share of the market, and a significant  
19 part of reformulated gasoline is an alternative  
20 fuel. Reformulated gasoline is one of the most  
21 significant environmental achievements of this  
22 decade, and it has been shown to have many natural  
23 advantages over competing or alternative fuels. As  
24 a result, it is now under consideration for use  
25 throughout the Northeast and other parts of the

0093

1 country. If reformulated gasoline does spread over  
2 much of the country, it is likely to result in  
3 significant use of alternative fuels in the United  
4 States. In this case, the environmental benefits  
5 would be clear and the use of petroleum will also  
6 decline. Why not determine how reformulated  
7 gasoline spreads before embarking on an ill-founded  
8 adventure in developing a new fuel supply and  
9 distribution system?

10 And I guess my only summation would be,  
11 as the gentleman from Biodiesel said, all of the  
12 impediments that you have with infrastructure are  
13 not impediments to what we're suggesting to you.

14 And we do appreciate the opportunity to  
15 appear before you, and if you have questions, I'll  
16 try to answer them.

17 MR. RODGERS: Thank you very much.  
18 I really appreciate you bringing up the questions  
19 and comments about reformulated gasoline.

20 As part of the Energy Policy Act, the  
21 nonpetroleum portion of reformulated gasoline and  
22 other gasolines is counted towards meeting the  
23 Energy Policy Act goals, and so I do have a  
24 question for you on that. Do you think that  
25 reformulated gasoline program should expand to the

0094

1 entire nation outside of the specified areas in the  
2 Clean Air Act, and should the Department of Energy  
3 be considering actions to promote the increased use  
4 of reformulated gasoline as part of its Energy  
5 Policy Act programs?

6 MR. WEHMAN: I think that it is a  
7 much more logical way of attempting to address the  
8 alternative fuel issue than to go to something  
9 where you do not have a infrastructure already in  
10 place. And for that reason -- you know, I, again,  
11 don't think you could snap a switch and have it  
12 happen immediately, but I think an orderly  
13 transition towards that would probably be the  
14 logical way to go.

15 MS. LEWIS: I don't have any  
16 questions.

17 MR. RODGERS: Thank you very much.

18 MR. WEHMAN: Thank you. It's a real  
19 pleasure to be with you.

20 MR. RODGERS: Our next speaker is  
21 Mr. Frank Burcham. Did I pronounce that right, I  
22 hope?

23 MR. BURCHAM: Yes. Thanks. I was  
24 going to wish you good morning, but now it's good  
25 afternoon. My name is Frank Burcham. I'm

0095

1 executive director of the Alternative Fuels Vehicle  
2 Network. It's a nonprofit fuel-neutral  
3 organization based in Albuquerque. It's a regional  
4 group supporting the expanded use of alternative  
5 fuels in the region. It counts membership in  
6 Kansas, Texas, Arizona, California and New Mexico  
7 right now, so it's a relatively new group, but it  
8 is spreading.

9 I'm speaking on behalf of that group as  
10 well as the City of Albuquerque, which was DOE's  
11 eleventh designated city, Clean City, on June 1st,  
12 1994. They have been using clean fuels, primarily  
13 compressed natural gas, since 1988 mostly in  
14 light-duty vehicles, but we are now converting that  
15 to our entire transit fleet, the heavy-duty  
16 vehicles, to compressed natural gas.

17 And the third group I represent this  
18 morning is the Public Service Company of  
19 New Mexico, which is also headquartered in  
20 Albuquerque. It is the largest natural gas and  
21 electric utility in the state of New Mexico, and it  
22 has about 300 vehicles operating on alternative  
23 fuels at this time.

24 I only have six points. I'll be very  
25 brief in my comments this morning -- or this

0096

1 afternoon, now, and just address those six points.

2 First of all, it is the City of  
3 Albuquerque's position, as well as the other two  
4 organizations, that alternative fuel vehicles play  
5 a very important part in the community's ability to  
6 obtain federal CO levels and are a key part of its  
7 clean air strategy, its maintenance strategy, and  
8 that the present strategy, present regulations and  
9 the time frame for the acquisition of alternative  
10 fuel vehicles under Section 507 of the Energy  
11 Policy Act of 1992 should be kept in place.

12 Two, these alternative fuel vehicle  
13 acquisitions and DOE requirements should be based  
14 upon the availability of OEM alternative fuel  
15 vehicles. The City of Albuquerque's preference is  
16 toward OEM vehicles, and in the past this has been  
17 a problem in acquiring those, unfortunately,  
18 because there hasn't been a sufficient number or  
19 type of OEM vehicles, alternative fuel vehicles,  
20 available for purchase.

21 Three, there's a definite need for  
22 continued federal assistance from funding programs  
23 such as ISTEA and CMAQ at the state and community  
24 level.

25 Four, there continues to be a great need



0097

1 for support and guidance from DOE on a regional and  
2 state basis as clean corridors are developed  
3 throughout the country.

4 Five, many Clean City communities are in  
5 dire need of properly supported and funded  
6 coordinator positions. Hopefully, DOE may be able  
7 to assist in this area on a community, state or  
8 regional basis.

9 And last, six, the alternative fuel  
10 vehicle acquisition schedule should include medium  
11 and heavy-duty vehicles as well as the current  
12 light-duty vehicle requirements.

13 A closing comment to put everything in  
14 perspective, nearly 100 years ago the  
15 transportation industry faced a decision in  
16 transferring from one mobile transportation source  
17 to another. That was from horse and buggy to  
18 motorized vehicles. The main environmental issue  
19 in that case was horse manure, stepping in it,  
20 finding it on the roads and stuff. Well,  
21 unfortunately I think you're going to have to step  
22 around some horse manure on this issue, and I wish  
23 you luck in it. That concludes my comments.

24 MR. RODGERS: Thank you very much,  
25 Frank. I did have a question on your final point

0098

1 related to medium and heavy-duty vehicles. In  
2 Albuquerque is it your experience that the folks  
3 who are considering using alternative fuels, are  
4 they looking at their entire program from light to  
5 medium to heavy-duty and they want to look at their  
6 entire fleet and not just be restricted to looking  
7 at only the light duties vehicles?

8 MR. BURCHAM: That's correct. As  
9 many of the speakers have brought up this morning,  
10 the economics, at least initially in the late '80s  
11 of and earlier '90s, the technology was such that  
12 most of the applications were light-duty vehicles,  
13 but the economics were not there.

14 Now as the technology is developing and  
15 different applications are becoming available on  
16 the medium and heavy-duty side that are really the  
17 high-fuel users, which is the bottom line for  
18 alternative fuels. That seems to be the direction,  
19 not the only City of Albuquerque, but other  
20 organizations are going toward.

21 MR. RODGERS: Okay. Thank you.

22 MR. BURCHAM: Thank you again.

23 MR. RODGERS: Thanks for coming all  
24 the way from New Mexico. Our next speaker is Sol  
25 Shapiro. Is -- I'm sorry. Sol's not here just

0099

1 now, so we're going to move to the next speaker,

2 Mr. Karl Rehberg. Thanks, Karl.

3 MR. REHBERG: Good afternoon. I'm  
4 Karl Rehberg from NOPEC Corporation, Lakeland,  
5 Florida. We are the country's first fully  
6 dedicated biodiesel producer. We are privately  
7 owned. My friends and I developed this company.  
8 It started out on my wife's kitchen counter about  
9 nine years ago. She told me I needed to find a  
10 job. She married me for love, not for lunch.

11 The reason we're here today is to let you  
12 know that biodiesel is very much alive and well.  
13 We have invested almost \$20 million of our own  
14 money into the project, my friends and I. We have  
15 no government money involved in this. We have  
16 never applied for any grants or tax exemptions or  
17 special privileges. We want to show that this can  
18 be done without government subsidy, without running  
19 up debt. In fact, we have no debt in this  
20 company. We don't even have a car loan.

21 The term "biodiesel" is used as a generic  
22 term for methyl esters. A coproduct of our process  
23 is also glycerine, which is a very important  
24 commodity here. I'd like to also inform you that  
25 there has never been a diesel engine made in the

0100

1 last 100 years that cannot use biodiesel without  
2 modification. There's not a diesel fuel tank in  
3 the ground that can't accept this fuel, and there's  
4 no other infrastructure modifications required.  
5 Biodiesel burns clean. There's no  
6 sulphur in it contributing to acid rain. There's  
7 no benzene in it to contribute to carcinogens in  
8 the air we breath. There's no black smoke and no  
9 soot. A 20 percent blend of biodiesel will put any  
10 diesel engine in compliance with the Clean Air Act  
11 and EPACT. There are no barriers to infrastructure  
12 because there's no infrastructure to adjust.  
13 There's no special maintenance facilities  
14 necessary.

15 We make a lot of our biodiesel fuel out  
16 of recyclable materials, a great deal of it from  
17 restaurants. We have joined in an effort with the  
18 restaurant association, National Restaurant  
19 Association, the Florida Restaurant Association,  
20 Walt Disney World, and I can't tell you how much  
21 other thousands of restaurants, to be recycling  
22 their oil.

23 There's another factor that comes into  
24 this, and that comes in through the EPA's Resource  
25 Conversation Recovery Act, where a great deal of

0101

1 the cooking oils from restaurants, for example, and  
2 there's billions of gallons of it -- I almost feel  
3 like Carl Sagan. There's billions of gallons of  
4 it, and the Resource Conversation Recovery Act  
5 states that this stuff can no longer be disposed of  
6 in landfills or be land spread. So a pumper goes  
7 to Burger King, picks up the grease there. He's  
8 driving down the street with it, and he has no  
9 place to put it; so he drives into McDonald's,  
10 opens up McDonald's grease trap and puts it in.  
11 McDonald's calls up and says, "My grease trap's  
12 full."  
13 "Okay. We'll pump it."  
14 He goes back to McDonald's, pumps it and  
15 takes it to Checkers, from Checkers to Denny's,  
16 from Denny's to Red Lobster. The only thing that's  
17 missing is the merry-go-round music.  
18 When the grease winds up in the lift  
19 stations, the City has to clean it out, but then  
20 they go up the line from the lift stations until  
21 they find some restaurants and they assess fines on  
22 them.  
23 At the restaurant association show in  
24 Chicago recently one gal got up there and said,  
25 "Let me tell you about some of this illegal

0102

1 dumping problem. We have a Cracker Barrel  
2 restaurant on I-4 in Florida." She said, "They  
3 have not been open a year yet, but so far they've  
4 been fined \$215,000 for excess grease discharge,  
5 and it's not their grease." Chili's restaurant,  
6 \$41,000 so far this year. Burt Reynold's  
7 restaurant there in Lakeland was put completely out  
8 of business for excess grease discharge. Their  
9 fines were running between eleven and \$15,000 a  
10 month.  
11 We have found a way to solve that  
12 problem. We can eliminate that problem. We can  
13 eliminate the disposal problem. We take this  
14 grease and oil and turn it into clean-burning  
15 diesel fuel. We don't have to import this stuff.  
16 Our coproduct, glycerin. Glycerine is  
17 something that everybody in this room has used  
18 today at least four or five times. You don't even  
19 know it. Shampoo, shaving cream, toothpaste.  
20 Toothpaste tastes good because it has glycerine in  
21 it. Shoe polish, fabric softener in your clothes.  
22 Your car wouldn't even run without glycerine,  
23 wouldn't even exist without glycerine. It's one of  
24 the most versatile chemical compounds known to man  
25 other than water.

0103

1 And I bring this subject up because it's  
2 significant. It's significant in the fact that the  
3 United States is a net importer of glycerine. In  
4 1992 the Chinese did not import any glycerine.  
5 Today they're importing 200 million pounds of  
6 glycerine because we have traded operations with  
7 the Chinese. But the result of that is the price  
8 of glycerine has more then tripled. This is a wake  
9 up call, and it's going to give you an idea that  
10 these other people in the other half of the world,  
11 between India and China and the former Soviet  
12 Union, represent half the earth's population, and  
13 they want what we've got, and they're willing to  
14 pay a price.

15 If you go back to the time of 1945, we  
16 had two and a half billion people on this planet and  
17 50 million vehicles. 50 million vehicles, two and  
18 a half billion people. Today we have over  
19 five billion people and over 500 million vehicles.  
20 And when we get to the point where everybody has  
21 one, we don't have enough resources here to support  
22 that. You realize that today if every American  
23 went out and got in a vehicle, not necessarily  
24 their own, but if you just went out and got in a  
25 vehicle, nobody would have to sit in the back

0104

1 seat?

2 So we think that the importance of having  
3 B20 recognized as a feasible fuel for vehicles that  
4 doesn't cost anything extra for the vehicle,  
5 doesn't cost anything extra for the  
6 infrastructure. It's already there. It can be  
7 blended at the terminals.

8 NOPEC has plans. We're putting new  
9 plants in South Florida, Atlanta, St. Louis, Kansas  
10 City, Omaha, Oklahoma City, Dallas, Texas. We're  
11 bringing one near you. We don't need any economic  
12 incentives. In fact, we give economic incentives  
13 to the communities that we go in because part of  
14 the proceeds that we get in selling biodiesel and  
15 the coproducts, we take and donate 10 cents a  
16 gallon to local schools for their school-to-work  
17 programs; through Rotary International for  
18 scholarships, school supplies or things like senior  
19 class trip to Washington, something like that.

20 It's not to go for administrative costs. We sit  
21 down and have some very hard discussions with some  
22 of the school boards. We have six school districts  
23 in Florida now in this program.

24 We are having young people trained, for  
25 example, to get into the school-to-work program

0105

1 through the Florida Restaurant Association so that  
2 these people can get better jobs than just flipping  
3 hamburgers. They can get some managerial jobs and  
4 see that they have hope for a future, not that  
5 they're going to go out on the corner and deal  
6 because they have no hope for the future.

7 We're looking to get these people  
8 involved. We even send buses to the schools,  
9 powered on biodiesel, and we have the buses pick up  
10 kids from the schools from their environmental and  
11 ecology classes, bring them over to our plant and  
12 show them, "Look at this crappy grease here. You  
13 pour some in here, you pour some in here and see  
14 what happens. See it separate? Now, I'm going to  
15 take this out and put it in an engine and see how  
16 it runs. Here's the bus that you came over here on  
17 running on the same thing. We'll pour some more in  
18 there." It gets them involved. It gets them to  
19 see that recycling and the environment is  
20 important.

21 I really appreciate the opportunity to be  
22 here today. Thank you. If you have any questions,  
23 I'd be glad to answer them.

24 MR. RODGERS: Thank you very much,  
25 Karl. Vivian, do you have any questions?

0106

1 MS. LEWIS: No.

2 MR. RODGERS: We appreciate it very  
3 much. Our next speaker is Mary Miksa.

4 MS. MIKSA: Good afternoon. I'm  
5 Mary Miksa, and I'm vice president for governmental  
6 affairs for the Texas Association of Business and  
7 Chambers of Commerce. TABCC is a broad-based  
8 business association of 5,000 companies and over  
9 200 chambers of commerce representing about  
10 two million Texas jobs. TABCC has been  
11 representing business and industry in Texas since  
12 1922. While many of our members are large  
13 manufacturers, over 77 percent of our membership is  
14 composed of small business, those with 100 or fewer  
15 employees. Many of our members have private fleets  
16 which would be affected by the proposed EPACT  
17 program requirements.

18 In the last three years, TABCC has  
19 represented private fleets in regulatory and  
20 legislative efforts to enact the state Alternative  
21 Fuels for Fleets Program under the Clean Air Act,  
22 which culminated in 1995 with Senate Bill 200 and  
23 its subsequent regulations.

24 Using 1993 data the Texas Natural  
25 Resource Conservation Commission, our environmental

0107

1 agency, has estimated that of the four Clean Air  
2 Act cities, nonattainment areas alone, Dallas/Fort  
3 Worth, Houston/Galveston, Beaumont/Port Arthur and  
4 El Paso, this program will impact 102,000 vehicles  
5 in over 600 fleets. Adding in the additional six  
6 areas affected by EPACT, San Antonio, Austin/San  
7 Marcos, Corpus Christi, Killeen/Temple,  
8 McAllen/Edinburg and Brownsville/Harlingen, that  
9 figure will increase to over 900 fleets and over  
10 150 (sic) vehicles in Texas.

11       Of course, for EPACT you would have to  
12 add some vehicles and decrease some vehicles  
13 depending upon the number of fleets in the program,  
14 and you would also have to make an adjustment for  
15 the fact that the EPACT program only includes  
16 vehicles of up to 8500 pounds.

17       But at the same time, I think you have to  
18 take into account that the state population  
19 figures, fleet and vehicle figures are four years  
20 old. Since that time Texas has undergone  
21 population and economic growth at the rate of two  
22 to three percent; so I think the figures are going  
23 to be much higher. I also think we will see, if  
24 you look at 1996 population figures, additional  
25 cities be impacted by EPACT. But however you

0108

1 figure it, there's no doubt that a large number of  
2 Texas businesses stand to be impacted by the EPACT  
3 program under consideration.

4       There is also no doubt that the Texas  
5 Alternative Fuels for Fleets Program will be  
6 economically burdensome for Texas private fleet  
7 owners, and I think you've heard some of the  
8 economics discussed earlier this morning by some  
9 other witnesses. Testimony in recent hearings on  
10 state regulations made it clear that private fleets  
11 will have a hard if not impossible time attaining  
12 the AFV percentages for the state program by the  
13 target dates. While the same program does include  
14 a two-year waiver on a case-by-case basis for  
15 individual fleet owners, this provision only delays  
16 a fleet's compliance by two years. It does not get  
17 rid of the requirement to be in the program.  
18 Adding another program, another level of  
19 bureaucracy and compliance, like EPACT, no matter  
20 how well-intended, will further add cost to private  
21 fleet owners.

22       Whatever the difficulties private fleets  
23 will have in complying with the state AFV program  
24 will be increased considerably by the hardships to  
25 be inflicted on fleet owners by the EPACT program

0109

1 under consideration. In 1995 Texas fleet owners  
2 were successful in convincing our legislature that  
3 the original fuels under consideration in our state  
4 program, which included methanol, ethanol, propane,  
5 CNG and electricity, should be expanded to include  
6 any fuel which meets emission reduction levels,  
7 including RFG and diesel.

8       The inclusion of RFG and diesel gave  
9 fleet operators in Texas a degree of hope that they  
10 might be closer to compliance with the AFV program  
11 under the Clean Air Act, because it is predicted  
12 that at least RFG LEV vehicles might be generally  
13 available, at least at some point in the future.  
14 So with one hand, the Texas legislature gave us the  
15 possibility of RFG and diesel, and with the other,  
16 DOE proposes to take it away. I am only glad that  
17 DOE administrators and our Texas congressmen will  
18 be around to explain to our fleet owners in this  
19 state how one level of regulations allows them to  
20 purchase and use RFG and diesel fuel vehicles,  
21 while at the same time a different set of  
22 regulations prohibit RFG and diesel fuel use in  
23 AFVs.

24       On the goals of the EPACT program, I have  
25 read the technical report on market potential and

0110

1 impacts of alternative fuel use, and I find it to  
2 be amazingly optimistic in its assumptions and, not  
3 surprisingly, its conclusions. Regarding the  
4 assumption that for the year 2000, 10 percent  
5 replacement of light-duty motor fuel use with  
6 alternative and replacement fuels is feasible and  
7 appears likely with existing practices and  
8 policies, I can only say that you must be  
9 contemplating using something approaching a heavy  
10 stick with auto manufacturers.

11       For those of us already burdened by the  
12 state AFV program, we have been unable to get even  
13 the most general estimates or projections much less  
14 commitments from auto manufacturers on which types  
15 of vehicles will be available by when.

16       The earliest list date for registration  
17 and to begin compliance with the Texas program is  
18 September 1, 1998. Since fleet purchasing managers  
19 must plan vehicle purchases, fuel supply and  
20 maintenance for up to two years ahead, you can  
21 imagine the fleet managers' frustration in  
22 attempting to comply with programs like this. And,  
23 again, although a waiver is available, it still  
24 only postpones the inevitable compliance for two  
25 year. History has shown us that absent a mandate

0111

1 requiring AFV manufacture, the production of AFVs  
2 will not meet fleet demands, even when these  
3 demands are artificially driven by state or federal  
4 requirements.

5       The second assumption that the technical  
6 report makes that I take issue with is the  
7 assumption that by 2010, the transition to  
8 widespread availability of fuels and of alternative  
9 fuel vehicle availability will have taken place.  
10 Texas was one of the earliest states to enact an  
11 AFV program. We passed our original statute in  
12 1989. Why, we were so foresighted, we even  
13 predated the Clean Air Act of 1990 that mandated  
14 such programs for states. And from the fleet  
15 operators' prospective, we learned the hard way  
16 that our alternative fuel suppliers dream great  
17 dreams of supply and availability but seldom  
18 deliver. Experience leads us to be skeptical of  
19 fuel suppliers or of government agencies who  
20 promise us alternative fuel vehicles for every  
21 garage and an alternative fuel station on every  
22 corner.

23       We recognize the difference in goals  
24 between the Clean Air Act alternative fuels  
25 programs of the states and the EPACT AFV program.

0112

1 The AFV and Clean Air Act alternative fuels  
2 programs are directed towards emission reductions,  
3 while the EPACT program is aimed at conserving  
4 domestic energy resources. In some respects the  
5 Texas businessman doesn't really care. All he  
6 knows is that he now will have one more  
7 well-intended, complicated and costly bureaucratic  
8 program to comply with.

9       TABCC encourages the Department of Energy  
10 to think long and hard before imposing another such  
11 AFV program on private fleets, at least imposing it  
12 sooner than you have to.

13       I thank you for the opportunity to speak  
14 on this critical issue, and I am optimistic that  
15 you will listen to our concerns.

16       MR. RODGERS: Thank you very much  
17 for your comments. There's a lot of questions that  
18 I have from your testimony, but I don't think we  
19 can get into them all here. But let me make one  
20 comment and make sure -- the Technical Report 14  
21 that you referred to in your testimony and the goal  
22 of 10 percent replacement fuel use by the year  
23 2000, I just want to make sure that people  
24 understand that that report does not assume a heavy  
25 stick with the manufacturers because the



0113

1 calculation of the different nonpetroleum  
2 components in gasoline, the use of propane in  
3 existing vehicles, the use of natural gas liquids  
4 does account for a significant portion of that  
5 motor fuel replacement by the year 2000. And I  
6 would be happy to provide more information on that  
7 at your request, as needed.

8 Vivian, did you have any questions?

9 MS. LEWIS: No.

10 MR. RODGERS: Thanks for taking the  
11 time to come up.

12 MS. MIKSA: Thank you, and I look  
13 forward to receiving that information.

14 MR. RODGERS: Our next speaker on  
15 the agenda, Mike Liljedahl, are you here?

16 FLOOR SPEAKER: He was detained.

17 MR. RODGERS: Okay. So we'll go to  
18 our next speaker, Mr. David Bragg.

19 MR. BRAGG: Thank you. I am David  
20 Bragg, and I am not from Little Rock, Alaska, as  
21 indicated on the agenda, but from Little Rock,  
22 Arkansas, the capital city to the northeast up  
23 here. I am fleet director for the City of Little  
24 Rock. Little Rock is a stakeholder in the  
25 Department of Energy Clean Cities Program. So far

0114

1 we've managed to avoid clean air nonattainment  
2 status and we're attempting to take the necessary  
3 steps voluntarily to remain in compliance.

4 Availability of convenient fueling sites  
5 is a critical component to acceptance of  
6 alternative fuels. Driving across town to obtain  
7 an alternative fuel when gasoline is available  
8 nearby is not acceptable to my operating  
9 departments. As a matter of fact, my police chief  
10 is currently asking me to put in an additional gas  
11 station at his southwest precinct, which is only  
12 two and a half miles from our central maintenance  
13 facility.

14 We currently operate 13 automated  
15 gasoline and diesel dispensing locations disbursed  
16 throughout the city. To adequately service a  
17 significant portion of our fleet with alternative  
18 fuels would require the addition of alternative  
19 fuels to a minimum of four of these sites.  
20 Currently, there is only one commercial CNG site  
21 available in Little Rock. We've applied for a DOE  
22 demonstration grant, which included a CNG fast-fill  
23 fuel site for one of our locations. To my  
24 knowledge, that grant is pending.

25 We currently sell gasoline and diesel to

0115

1 other government agencies at the same tax status as  
2 the city. As part of our Clean Cities commitment,  
3 we're willing to operate alternative fuel sites on  
4 a break-even basis for other government agencies,  
5 but we cannot afford the capital outlay to install  
6 the number of sites necessary to achieve reasonable  
7 convenience. Additional assistance from DOE for  
8 capital funding for shared facilities would greatly  
9 improve the acceptance of alternative fuels.

10 From an EPA presentation at the recent  
11 NAFA, and that's National Association of Fleet  
12 Administrators, convention in Chicago, I am  
13 concerned that the only safe approach for me to  
14 take to achieving long-range clean fuel vehicle  
15 certification with CNG is the purchase of OEM  
16 dedicated CNG vehicles. Further clarification of  
17 that issue, I feel, is needed. From this  
18 conference here, I'm still of that opinion, that  
19 there's no guarantee to me that converted vehicles,  
20 long range, will meet the Clean Air Act.

21 OEM CNG vehicles are not currently  
22 available in Little Rock. We have one Dodge pickup  
23 truck on order, but Dodge, as you know, has  
24 withdrawn from the market for 1997. We have been  
25 trying to purchase a CNG demonstration sedan from

0116

1 Ford since early 1996, but they have been unable to  
2 certify a local dealer and, consequently, will not  
3 sell us the vehicle.

4 We have voluntarily taken a proactive  
5 position toward implementation of alternative fuels  
6 in the hope that mandates for local government  
7 could be avoided. At this point we have been  
8 unable to make any progress due to the lack of fuel  
9 availability and the lack of vehicle availability.

10 With the currently available technology,  
11 we believe that net lifetime cost of operating with  
12 clean alternative fuels versus gasoline or diesel  
13 will require significant budget increases, whether  
14 implementation is voluntary or mandatory.

15 MR. RODGERS: Thank you. Building  
16 on your last comment and what some other folks said  
17 this morning and incentives, have you given some  
18 thought or are you willing to share some ideas  
19 about what kind of incentives for local governments  
20 might help in purchasing alternative fuel vehicles  
21 or using alternative fuels?

22 MR. LILJEDAHN: I feel like my  
23 earlier comments regarding infrastructure -- if we  
24 could get the infrastructure in place, then I think  
25 our government, at least, is willing to fund the

0117

1 incremental cost as our commitment to Clean Cities,  
2 but we simply cannot afford four or five -- if CNG  
3 is the fuel of choice, we cannot afford the million  
4 or million and a half or \$2 million, whatever it  
5 would take, to give us these four or five  
6 facilities that I see necessary for my users to  
7 accept it.

8 MR. RODGERS: Okay. Thank you.  
9 Vivian?

10 MS. LEWIS: Yes, I would like to ask  
11 you a question dealing with our goals and  
12 acquisition requirements. It seems that everyone  
13 here, for the most part, is saying that we either  
14 should delay or not do anything. But if we go to a  
15 rulemaking, as I think I stated earlier, the  
16 Secretary has the authority to decrease the goals  
17 and the acquisition requirements. Do you have any  
18 suggestions as to these possible decreased  
19 numbers? And if you don't have that information, I  
20 would appreciate it if you could submit that to us  
21 so that we could put it in the record.

22 MR. LILJEDAHN: Okay. I think I can  
23 answer that best by going back to my comment that  
24 we see the problem as infrastructure. If we can  
25 get a local -- if we can buy OEM vehicles, which I

0118

1 think the manufacturers will be forthcoming with,  
2 if you do a mandate, I think we can acquire the  
3 vehicles to come in compliance. But we cannot  
4 service them because we don't have -- if CNG is the  
5 fuel of choice, we don't have the ability to do it  
6 without severe inconvenience to our operating  
7 departments and additional cost.

8 MR. RODGERS: Thank you very much.  
9 Our next speaker is Mr. William Dermott. I would  
10 just like to point out that right now it's 12:40 by  
11 my watch. We have six signed-up speakers. If they  
12 each take their 10 minutes, which they're certainly  
13 allowed to do, we'll be here for another hour, and  
14 then we'll have our unscheduled speakers and  
15 opportunity for rebuttal.

16 If you do want to offer rebuttal or  
17 additional comment, please go to the back and sign  
18 up with Andi Kasarsky. Thank you very much. And,  
19 please, go ahead.

20 MR. DERMOTT: Good afternoon. I am  
21 Bill Dermott, manager of legislative and regulatory  
22 affairs for Exxon Company USA's marketing  
23 department. I do appreciate the opportunity to  
24 comment today on the advanced notice of proposed  
25 rulemaking.

0119

1 The notice requests comments on various  
2 issues. There are two in particular that I'm going  
3 to try to address. The first is whether the  
4 proposed alternative fueled vehicles acquisition  
5 mandate should be promulgated. In brief, our view  
6 is that this rule should not be promulgated.

7 There are several reasons for that  
8 position. First, from a policy perspective, Exxon  
9 is strongly opposed to mandates and subsidies. Let  
10 me be clear that we are not opposed to alternative  
11 fuels and vehicles, per se. In fact, Exxon is a  
12 supplier of alternative fuels. For example, we are  
13 the largest holder of proved natural gas reserves  
14 in the United States and the second largest  
15 domestic producer. As a result, we're in an  
16 excellent position to benefit from any expansion of  
17 demand for compressed natural gas.

18 Nevertheless, we are strongly opposed to  
19 government mandates or selective subsidies for  
20 alternative fuel, because they are not justified in  
21 terms of either energy security or as a  
22 cost-effective way to reduce emissions. We believe  
23 that alternative fuels and alternative fueled  
24 vehicles should compete on an equal basis in the  
25 marketplace without mandates or subsidies. If the

0120

1 fuels and vehicles become economically viable,  
2 their use will increase.

3 As others have said here this morning and  
4 this afternoon, we recognize there are some niche  
5 markets where some alternative fuels may be  
6 economically justified, such as in vehicles with  
7 very high annual fuel use and centralized  
8 refueling, but these potential markets are very  
9 limited in number.

10 Our fundamental concern is how the nation  
11 makes decisions about fuel use. Going about it in  
12 the wrong way could have an adverse impact on our  
13 entire economy, and anything that affects our  
14 economy affects each of us as businesses,  
15 individuals and taxpayers. Policy and business  
16 decisions on fuel use should be based on a rigorous  
17 analysis using sound science of the relative cost  
18 and benefits of each option. This approach will  
19 best serve us all in the long run.

20 We also disagree with the national  
21 security premises underlying EPACT's alternative  
22 fuel vehicle mandates and replacement fuel goals.  
23 We believe they are seriously flawed. The United  
24 States is a net importer of all major fossil fuels  
25 except coal. The Energy Information Agency's own

0121

1 data shows that in 1995 the nation imported about  
2 12 percent its natural gas, 6 percent of its LPG  
3 and 23 percent of its methanol needs. Any  
4 significant growth in LPG, methanol or natural gas  
5 consumption will lead to increased imports of these  
6 fuels with little or no energy security benefit  
7 with higher cost to consumers.

8 With regard to ethanol, the DOE's own  
9 studies show there is little energy security  
10 benefit from ethanol use. It takes about as much  
11 energy to make and distribute ethanol as is  
12 obtained from its combustion.

13 Furthermore, building a new and redundant  
14 transportation fuel infrastructure for each of the  
15 alternative fuels would add a significant economic  
16 burden to the nation and waste limited investment  
17 capital.

18 We also oppose promulgation of this rule  
19 for procedural and practical reasons. We strongly  
20 agree with DOE's conclusion that there is not  
21 enough time to complete the regulatory process.  
22 Following the advanced notice, the Secretary of  
23 Energy is to publish a proposed rule and provide a  
24 public comment period, including hearings of not  
25 less than 90 days in length. With the closing date

0122

1 for written comments on the advanced notice of  
2 November 5, the statutory deadline of December 15,  
3 1996 for completion of the early rulemaking cannot  
4 be met. This means that a rule affecting private  
5 and local government fleets cannot go into effect  
6 until model year 2002.

7 Another reason why the rule should not be  
8 promulgated is that DOE has not yet completed its  
9 study of the technical and economic feasibility of  
10 meeting the 10 percent and 30 percent replacement  
11 goals for 2000 and 2010, respectively. This study  
12 was to have been completed by October of 1993,  
13 almost three years ago.

14 Moreover, DOE was required in the Act to  
15 prepare a technical and policy analysis of various  
16 issues related to replacement fuels and alternative  
17 fueled vehicles for submission to the President and  
18 Congress by March of 1995. This analysis has not  
19 been completed.

20 It is reasonable to conclude from the  
21 magnitude and timing of the technical, economic and  
22 policy analysis that Congress appreciated that  
23 achievement of these replacement goals, especially  
24 for the year 2010, would involve substantial  
25 departures from the current vehicle and fuel

0123

1 system. As a consequence, very careful analysis by  
2 DOE is required before the Department can make any  
3 decision on the fleet mandate.

4       This leads to the second issue in which  
5 comments were requested, and that is assessing  
6 progress toward the 10 percent and 30 percent  
7 replacement goals, identifying problems with  
8 achieving the goals and assessing the adequacy and  
9 practicability of actions necessary to meet the  
10 goals.

11       In this regard I would like to focus  
12 briefly on DOE's January of '96 assessment of cost  
13 and benefits, which is the first part of the  
14 analysis called for in EPACT. We do understand  
15 that the second part, which assess the cost and  
16 policy implications of making the transition to the  
17 replacement levels, is still being prepared. I  
18 think that's due out sometime next spring.

19       A few general points about the study:

20       First, DOE's analysis shows that  
21 achieving a 30 percent replacement of gasoline and  
22 diesel fuel in the year 2010 would require about  
23 95 million alternative fueled light-duty vehicles  
24 or about 40 percent of the total light-duty vehicle  
25 population in that year. This is an

0124

1 extraordinarily high level of replacement to reach  
2 in a relatively short period of time. DOE  
3 recognizes this in the report when it observes  
4 that, quote, "The market will not move toward such  
5 a scenario without government action." The report  
6 goes on to say that it would likely require a  
7 substantial commitment, probably including  
8 government driven mandates or incentives. As we  
9 have said, Exxon strongly opposes such actions  
10 because they do not serve the interest of the  
11 nation.

12       The study makes favorable assumptions,  
13 for example, that a complete refueling  
14 infrastructure for all alternative fuels has been  
15 established and economies of scale have been  
16 achieved for fuel and vehicle manufacturers. Under  
17 these highly optimistic conditions, a number of  
18 scenarios were examined. A particular note is a  
19 case that addresses long-term fiscal concerns by  
20 assuming that excise taxes are equalized among  
21 fuels to maintain constant tax revenue to the  
22 government. In that case, total energy imports in  
23 2010 are calculated to decline by less than two  
24 percent, and greenhouse gas emissions do not  
25 significantly change as a result of alternative

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1 fuel use.

2       We believe that the calculated economic  
3 benefits are overstated because they're based on  
4 optimistic assumptions and because a significant  
5 part of the benefit is from, quote, "increased  
6 consumer satisfaction." And, quite frankly, we do  
7 not understand how this consumer satisfaction is  
8 derived and whether it has any real significance.

9       Our point is simple. What the DOE is  
10 contemplating is an extraordinary transformation,  
11 undoing a century of market-driven motor vehicle  
12 and fuel evolution. It involves investing billions  
13 of dollars to install new refueling infrastructure  
14 to duplicate one that exists and is functioning  
15 well. It would ask consumers to spend many  
16 billions of dollars of additional cost to purchase  
17 alternative fuel vehicles for essentially no  
18 national gain.

19       It seems reasonable and prudent that DOE  
20 demonstrate large and unequivocal benefits to the  
21 nation based on a robust analysis before  
22 contemplating policy changes with such significant  
23 impacts. The benefits calculated by DOE fall far  
24 short of meeting this test.

25       We do have some additional comments on

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1 the limitations of the study and responses to some  
2 of the specific questions in the ANOPR related to  
3 achievement of replacement fuel goals, and we will  
4 address these issues in our written testimony which  
5 we will have to you prior to November 5th.

6       In summary, Exxon believes that the early  
7 rule for private and local government fleets should  
8 not be promulgated. In addition, DOE's preliminary  
9 analysis of the 30 percent replacement goal raises  
10 serious doubts about its feasibility.

11       That concludes my remarks. Thank you.

12       MR. RODGERS: Thank you very much.  
13 Vivian, do you have something?

14       MS. LEWIS: No.

15       MR. RODGERS: Just one question,  
16 Mr. Dermott. You refer in your statement to  
17 "energy security" but not to exactly what "energy  
18 security" is, and I think it would help us  
19 tremendously if you could either tell us today or  
20 in your written comments what your company's view  
21 of what energy security is and how we might go  
22 about increasing it.

23       MR. DERMOTT: I would be glad to do  
24 that in the written comments for you.

25       MR. RODGERS: Okay. Thank you very

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1 much. Our next speaker is Mr. Bob Looney.

2 (Interruption by the Reporter.)

3 MR. LOONEY: Good afternoon. I am  
4 Robert Looney, president of Texas Mid-Continent  
5 Oil & Gas Association. TMOGA is a trade  
6 association that represents all segments of the oil  
7 and gas industry operating in Texas. Our  
8 membership is large, exceeding 2,000 companies. It  
9 is also diverse, ranging from small scale oil and  
10 gas producers to 50 of the state's largest energy  
11 companies. Many of our largest members are among  
12 the premiere energy companies serving the nation  
13 and the world.

14 Our members account for 90 percent of all  
15 oil and gas production and 95 percent of the  
16 refining capacity in Texas. Given the dominant  
17 position of the state of Texas in the nation's  
18 energy industry, it is easy to understand the high  
19 level of interest that our members have in the  
20 subject of alternative fuels. This issue is  
21 extremely important to us, and is one that we  
22 understand well, which is why I'm pleased to be  
23 here today to represent our industry's views.

24 The advanced notice of proposed  
25 rulemaking invites comments on two topics. One,

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1 should the DOE mandate the acquisition of  
2 alternative fueled vehicles for private and local  
3 fleets, and, two, what are the problems of  
4 achieving the alternative fuel goals of the Energy  
5 Policy Act of 1992?

6 Our view is that the DOE should not  
7 impose mandates and that achieving alternative fuel  
8 goals of EPACT would be highly problematic. On the  
9 first question, the members of Texas Mid-Continent  
10 feel very strongly what the federal government  
11 should not mandate the purchase of alternative fuel  
12 vehicles. We have no objection whatsoever to the  
13 sale or use of such vehicles. In fact, it is our  
14 members who produce natural gas and other fuels  
15 that would power such autos and trucks.

16 Our primary concern relates to the  
17 imposition of government mandates and subsidies.  
18 History shows that government mandates and  
19 subsidies disrupt and distort the marketplace.  
20 They impose inefficiencies which increase cost.  
21 Government mandates and subsidies are, therefore,  
22 inherently anti-consumer. Mandates remove choice  
23 and decision-making from consumers and place them  
24 in the hands of government regulators. The  
25 inevitable result is an artificial market with many



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1 more losers than winners.

2 In the case of alternative fuel mandates  
3 and subsidies, the losers would include fleet  
4 owners, taxpayers, business owners and our road  
5 system. Fleet owners would be forced to purchase  
6 and utilize certain vehicles merely because the  
7 government regulation dictates that it be so.

8 Taxpayers would see their money used to  
9 subsidize construction of an elaborate alternative  
10 fuel infrastructure that is clearly not needed.  
11 Such a new infrastructure would overlap our  
12 nation's existing fuels infrastructure, an  
13 infrastructure that took decades to build and  
14 upgrade and serves the motoring public in a highly  
15 efficient fashion. Such duplication makes no  
16 sense.

17 The business community would see its  
18 costs rise as mandates impose inefficiencies on our  
19 transportation system. For example, a trucking  
20 company that operates in several states doesn't  
21 worry today whether vehicles can obtain fuel  
22 wherever they travel; but if forced to utilize  
23 alternative fuel vehicles, operations become less  
24 efficient and costs rise. The company is saddled  
25 with a new set of problems that didn't exist

0130

1 yesterday.

2 Our road system would suffer if excise  
3 taxes on our alternative fuels were reduced to  
4 encourage their use. A 10,000-pound truck fueled  
5 with natural gas imposes as much wear on the  
6 highway as one fueled with gasoline. Maintaining  
7 roads requires income from fuel excise taxes. If  
8 tax revenues fall, so will the quality of our  
9 roads. That's particularly important in states  
10 like Texas where they're experiencing high growth  
11 rates in population. Texas faces the special  
12 circumstances of being the gateway to Mexico for  
13 much of the United States. If Texas roads  
14 deteriorate, it will be hard to achieve the  
15 benefits promised by the North American Free Trade  
16 Agreement.

17 With respect to the second question  
18 concerning problems of achieving the alternative  
19 fuel goals of the Energy Policy Act of 1992, those  
20 problems are many and varied. The prospect of  
21 achieving 30 percent alternative fuel use is, quite  
22 frankly, mind boggling. The cost of such an  
23 undertaking would be monumental, many billions of  
24 dollars.

25 DOE's own analysis concludes that such a

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1 transformation would require the nation to have  
2 about 95 million alternative fueled vehicles on the  
3 road by the year 2010. That's 95 million  
4 alternative fueled vehicles versus less than  
5 one-half million today. That would represent about  
6 40 percent of the total light-duty vehicle  
7 population in 2010. It is hard to fathom the  
8 degree of government intrusion that would be  
9 required to achieve such a transformation. And  
10 what would be the benefit? In our view, there  
11 would be none, none for the consumer, none for the  
12 taxpayer, none for the business community, none for  
13 the petroleum industry, none for our road system  
14 and very little, if any, for our nation's energy  
15 security.

16 Let me conclude by saying that the  
17 membership of Texas Mid-Continent Oil & Gas  
18 Association believes that our nation's  
19 transportation system works best when it operates  
20 in a competitive market environment. All around  
21 the world we see nations that formerly controlled  
22 all or parts of their economics through centralized  
23 planning abandoning those systems in favor of free  
24 market approaches. Those nations have learned  
25 through bitter experience that centralized economic

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1 planning never works. No matter how careful and  
2 well-intended government regulators may be, they  
3 can never come close to matching the efficiency of  
4 the marketplace.

5 We hope the DOE will recognize the  
6 fallacy of trying to impose huge and, as yet,  
7 unidentified changes on our nation's fuels  
8 transportation system, a system that works  
9 extremely well and serves the best interest of the  
10 motoring public.

11 In summary, we believe the DOE should not  
12 promulgate rules mandating the acquisition of  
13 alternative fuels vehicles. In addition, we  
14 believe the DOE's preliminary analysis of the  
15 feasibility of achieving 30 percent alternative  
16 fuel use by 2010 is seriously flawed; therefore,  
17 that analysis does not provide a sound basis for  
18 any government rulemaking. Thank you.

19 MR. RODGERS: Thank you. Vivian, do  
20 you have any questions?

21 MS. LEWIS: No.

22 MR. RODGERS: Again, there's a lot  
23 of issues raised here in your testimony. I really  
24 appreciate you bringing them out. But I do want to  
25 touch on one question. I've heard this morning

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1 many witnesses saying that we should avoid mandates  
2 and turn to incentives, but then I read in your  
3 testimony here that your group does not look  
4 favorably on either mandates or subsidies.

5 MR. LOONEY: That's true.

6 MR. RODGERS: So I guess what I was  
7 going to ask, then, is if we are going to implement  
8 a program to reach Energy Policy Act goals, what  
9 should we do to reach that? What can we do to try  
10 to improve our energy security?

11 MR. LOONEY: Well, I'm afraid my  
12 answer is that it cannot be met; the EPACT goals  
13 cannot be met without extreme mandates and  
14 subsidies. I personally -- and I think my  
15 organization feels like there will be alternative  
16 fuel development in the United States of America as  
17 the consumer wills it to be and on that time frame  
18 only.

19 As technology develops, the  
20 infrastructure will be there. I'm of the opinion  
21 that as technology develops and as the consumer  
22 confidence in the products and in the fuels  
23 develops, that my companies, Mobil, Exxon, Chevron,  
24 all the rest, will be part of the infrastructure  
25 that delivers that product to the driving public.

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1 MR. RODGERS: Okay. One other  
2 question I had was I heard earlier this morning  
3 and, again, in your testimony about how our current  
4 transportation system does very well in serving the  
5 interests of the public; but yet I was also  
6 concerned with things I heard about air quality  
7 problems, health problems that are the direct  
8 result of that transportation system.

9 I also heard that reformulated gasoline  
10 was offered as a potential better solution than  
11 alternative fuels by folks in industries similar to  
12 yours, and yet at the same time I think my memory  
13 serves that reformulated gasoline was opposed by  
14 members of that same industry during the Clean Air  
15 Act debates.

16 So I guess what my question is leading to  
17 is the current transportation system, the one that  
18 we've got right now: Is that the best we can do?  
19 Is there nothing that needs to be changed in order  
20 to improve energy security and improve the air  
21 quality?

22 MR. LOONEY: Well, you brought up  
23 two or three points here, and anything can be  
24 improved. You know that. I was not part of the  
25 debate on reformulated gasoline, but I certainly

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1 know that tens of billions of dollars have been  
2 invested in Texas alone to produce alternative  
3 fuel -- I mean to produce reformulated gasoline as  
4 an alternative fuel.

5       To say that it can no longer be  
6 considered an alternative fuel, after that  
7 investment was made, is patently not fair. It has  
8 proven to be a tremendous fuel, a very clean fuel,  
9 and the next generation will be cleaner still. I  
10 am not a transportation expert, but I know that  
11 fuel has worked.

12       MR. RODGERS: Okay. Thank you very  
13 much for your comments. Our next speaker is  
14 Mr. Tom Henderson.

15       MR. HENDERSON: Good afternoon.  
16 Thank you for your patience. I'm Tom Henderson  
17 with the Texas General Land Office. As we all  
18 know, of course, the reason we're here is because  
19 of the publication of your advanced notice for  
20 proposed rulemaking under the Energy Policy Act of  
21 1992. That begins a process to determine whether  
22 alternative fuel vehicle acquisition requirements  
23 for certain private and local government automobile  
24 fleets should, in fact, be promulgated.

25       This advanced notice also requests

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1 comment on progress toward energy security and  
2 clean air goals that are set forth in the Act. It  
3 also asks for identification of problems with  
4 achieving these goals, assessment of whether  
5 achieving such goals is practical and consideration  
6 of all the actions necessary to meet them. This  
7 advanced notice, of course, is primarily intended  
8 to stimulate comments that will inform DOE  
9 decisions concerning future rulemaking actions and  
10 nonregulatory initiatives to promote alternative  
11 fuels and alternative fuel vehicles.

12       The Act requires DOE to determine whether  
13 a fleet requirement is, quote, "necessary to meet  
14 the 30 percent fuel replacement goal by 2010," and  
15 it sets forth a lengthy set of findings necessary  
16 to make such a determination.

17       DOE was, of course, given the opportunity  
18 to make findings and promulgate by December 5th,  
19 1996 a final rule to implement an early fleet  
20 mandate to begin in model year 1999. Since this  
21 process only began in August and since it's now mid  
22 September, it's pretty clear that such an early  
23 rulemaking is impossible. The Act provides the  
24 next opportunity for implementing such a mandate  
25 is, for one, beginning in 2002, fully five model

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1 years hence.

2       It's therefore questionable to me whether  
3 this rulemaking will, as a practical matter, have  
4 any significant effect on advancing the use of  
5 alternative fuel vehicles. A result, I might add,  
6 that's not out of line with the intention of  
7 certain members of Congress who erected these  
8 substantial barriers to creating this mandate in  
9 the first place.

10       Thus the question which must first be  
11 addressed in assessing this proposed rulemaking is  
12 whether this process is really worth the effort.  
13 It is my opinion that if the process is geared to  
14 attempting to overcome these extraordinary barriers  
15 in order to ultimately create a fleet mandate, the  
16 result will be doomed to failure and will not be  
17 worth the effort required. If, however, the  
18 process is geared to determining other avenues for  
19 promoting alternative fuel vehicle use and looking  
20 for other opportunities to move that agenda  
21 forward, then I believe it can prove quite useful.

22       With that goal in mind, I would suggest  
23 that the rulemaking efforts focus on how to  
24 strengthen the voluntary Clean Cities program to  
25 encourage local communities to include AFV fleet

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1 programs as part of their efforts to meet the  
2 national ambient air quality standards; that they  
3 explore ways to direct federal funding to purchases  
4 or conversions of additional alternative fuel  
5 vehicles, particularly by the private sector. If  
6 they look at tax issues like the illogical  
7 treatment of liquefied natural gas by the IRS and  
8 the existing unequal fuel excise tax burdens, these  
9 items deserve and merit attention.

10       The process should look for ways to  
11 encourage the auto and the engine manufacturers to  
12 produce a wide array of AFVs and to look at  
13 regulatory barriers to AFV commercialization, such  
14 as the current costly and cumbersome emission  
15 certification process required by the EPA and  
16 restrictions on how congestion mitigation and air  
17 quality funds provided for under the Intermodal  
18 Surface Transportation Efficiency Act can be used.

19       The process could also look for ways to  
20 encourage states to assist, such as providing bond  
21 funds for below-market rate loans for financing AFV  
22 purchases and conversions and direct financial  
23 incentives or tax deductions probably favored over  
24 credits for targeted high-milage fleets.

25       A process geared specifically to

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1 attacking problems is a process which can promote  
2 concrete progress toward increasing AFV use. It is  
3 my fear, however, that a process geared primarily  
4 to overcoming the legislative hurdles created  
5 primarily to preoccupy and divert would be a huge  
6 waste of energy and will ultimately lead simply to  
7 greater frustration and a preservation of the auto  
8 fuel status quo.

9 MR. RODGERS: Thank you, Tom.  
10 Coming from someone who's faced legislative hurdles  
11 of your own, I appreciate your comments very much.

12 One question I had was, as you know, the  
13 Clean Air Act pioneered -- used a regulatory  
14 negotiated process. I think they called it REG/NEG  
15 or NEG/REG. I can never remember.

16 MR. HENDERSON: It depends on the  
17 day, I think.

18 MR. RODGERS: Yeah. And a lot of  
19 people here in this room participated in that. And  
20 I think some folks have proposed that a similar  
21 process, when applied to the fleet rulemaking,  
22 might be a healthy process, and I take from your  
23 comments, get us to focus on some of the other  
24 alternatives. Do you think that that kind of a  
25 process would work for this program to do some of

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1 the things that you're suggesting?

2 MR. HENDERSON: I think it's always  
3 difficult to predict the outcome of a process, but  
4 I think that that's the kind of process that has a  
5 chance to move the agenda forward.

6 I think what we've heard most of this  
7 morning have been the traditional positions that  
8 the traditional industries have traditionally  
9 advocated, and I don't think that moves the debate  
10 one iota. I think if we all continue to engage  
11 each other in our prepared remarks that we've all  
12 read and heard a hundred times in a hundred  
13 different forums, that we will continue to be at  
14 exactly where we are now. And I think that there  
15 is some intention on the part of certain members of  
16 Congress and others that that's exactly what the  
17 outcome of this process ought to be.

18 I think if we're truly interested in  
19 advancing the cause of alternative fuels, if we're  
20 truly interested in moving forward and looking at  
21 alternatives and promoting the technology, then I  
22 think we have to be creative. And I think that the  
23 kind of process you suggest certainly offers more  
24 opportunities for that kind of creativity and that  
25 kind of fresh look at what we might do in the near

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1 term rather than spending an inordinate amount of  
2 time trying to figure out whether we can promulgate  
3 a mandate that might take effect in 2002.  
4 Candidly, if we haven't done something by 2002, I  
5 don't think we're going to be worried about this  
6 problem at that point anyway.

7       So my gut sense is that we need to focus  
8 much more on what can be done incrementally in the  
9 near term, how we can focus the best efforts of  
10 both the public and private sectors to achieving  
11 that end. And I think that process might very well  
12 be a good way to do so.

13       MR. RODGERS: And although I don't  
14 see it directly in your testimony here, I'm getting  
15 the inference that you think it is important to  
16 keep moving towards the Energy Policy Act goals.

17       MR. HENDERSON: David, if I didn't  
18 think it was important, I sure wouldn't have spent  
19 the time I've spent in the last eight years of my  
20 life doing this. I think it's important for a  
21 number of reasons. I think it's important -- when  
22 you look at the future of transportation, I  
23 personally think that we're going to end up in the  
24 not too distant future moving away from the  
25 internal combustion engine and probably towards

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1 something like fuel cells. When you look at that,  
2 then the development of the componentry, for  
3 instance, for electric vehicles becomes critical.  
4 The development of the infrastructure for fueling  
5 those fuel cells, whether that be natural gas or  
6 directly the hydrogen infrastructure or using the  
7 natural gas infrastructure, which I think is more  
8 likely to produce hydrogen, you know -- and I don't  
9 think that that's nearly as far down the road as a  
10 lot of people think. As we all know, in Germany  
11 just this last year, Daimler-Benz already has an  
12 operating fuel cell vehicle on the road and are  
13 really moving ahead very rapidly in that regard; so  
14 I think that's what we ought to be focusing on.

15       I don't think we ought to be talking  
16 about whether, you know, we're going to continue to  
17 have gasoline or we're not going to continue to  
18 have gasoline. We're going to continue to have  
19 gasoline for a long time into the foreseeable  
20 future.

21       But I think your question of Mr. Looney  
22 was a very good one, and that is: Can we do  
23 better, and, if so, how? And I think that we can  
24 do better. For instance, even with the technology  
25 we have today, natural gas vehicles are about 30

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1 percent cleaner than the best vehicles operating on  
2 federal reformulated gasoline. That's not a huge  
3 difference, but it's certainly a significant  
4 difference. And when you start talking about,  
5 then, being able to have that as a bridge  
6 technology to a much cleaner technology in the not  
7 too distant future, then a lot of that begins to  
8 make sense.

9 MR. RODGERS: Thank you. Vivian,  
10 did you have a question?

11 MS. LEWIS: Yes. I wanted to ask  
12 you about a statement you made in regards to  
13 encouraging the states to assist in the process of  
14 moving forward. I don't want to put you on the  
15 spot, but I will ask the question.

16 What would your state be interested in  
17 doing? Do you think you could get your state  
18 officials to participate in the process?

19 MR. HENDERSON: Yes, very much so.  
20 As a matter of fact, our legislature during the  
21 last session in 1995 passed a piece of legislation  
22 that directed the use of \$50 million in bonds  
23 specifically for alternative fuel purposes.  
24 Unfortunately, that legislation was not written  
25 very well, and we've run into some serious problems

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1 with how to implement it. But I think that with a  
2 look at how we might rewrite that, having states  
3 provide low-interest loans to those firms wishing  
4 to convert, makes a lot of sense.

5 One of the things we tried to do in order  
6 to move the agenda forward, and we started that  
7 process here in Texas in 1989, was to focus on  
8 government fleets. I think what we've found is  
9 that in many instances government fleets don't go  
10 anywhere. Government fleets don't travel the kind  
11 of miles necessary to justify the costs of  
12 transferring to another fuel. As a number of  
13 people, including some of the folks from the  
14 petroleum industry have indicated, there are  
15 certain high-milage niche markets, such as taxi  
16 cabs, which is a program we've been working on in  
17 New York City for time now, that make a lot of  
18 sense for alternative fuels. Having the ability to  
19 have the state help finance those kinds of  
20 conversions with low-interest loans would make a  
21 lot of difference in moving that agenda forward. I  
22 think that's one area.

23 I think the State of New York, for  
24 instance, has just recently passed some legislation  
25 that would encourage the use of such funds, state



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1 funds, for alternative fuel purposes as well. I  
2 think those kinds of actions make a lot of sense.  
3 I think there are other kinds of  
4 incentives that can be provided. A state like  
5 Connecticut, for instance, has done an awful lot in  
6 putting in tax incentives for private fleets that  
7 have clearly made it very worthwhile for major  
8 fleets, like UPS, Federal Express, et cetera, to  
9 convert in those states.

10 So I think there's a lot of creativity  
11 that can be invoked there, and I think you will see  
12 a willingness on the part of the states to do this,  
13 primarily because those states and those state  
14 officials also are the ones who have the burdens  
15 associated with meeting the mandates of the Clean  
16 Air Act, and they're looking for ways to try to do  
17 that.

18 MS. LEWIS: Thank you.

19 MR. RODGERS: Thank you very much,  
20 Tom. Thank you for your patience.

21 MR. RODGERS: I have three more  
22 speakers. The next one is Mr. Michael Kaplan.

23 MR. KAPLAN: Ms. Lewis, Mr. Rodgers,  
24 my name is Michael Kaplan. I hope I'm representing  
25 more than just industry. I hope I'm representing

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1 the citizens of the United States, of which I am  
2 one. I am a consultant in the alternative fuels  
3 industry. I'm a petroleum engineer by degree, and  
4 I've worked in the oil and alternative fuels  
5 industry for 15 years.

6 The comments that I wanted to make  
7 today: I'm for this rulemaking for several  
8 reasons. Number one, I've been involved in many  
9 paradigm shifts, and this is a big one. It's a  
10 tough one, but I'm afraid that the status quo is  
11 going to fall on its face eventually if we don't do  
12 something, and I think it's -- well, the government  
13 is in a position to help move that along.

14 I've heard a lot of argument against this  
15 today. One of the biggest ones I've heard is the  
16 problem with infrastructure. I've lived in the  
17 Metroplex for a good portion of my life, and I've  
18 seen fueling stations remodel and remodel and  
19 remodel. Obviously, this legislation is for the  
20 larger cities. It's not for the small ones that  
21 have low volume. It's for the larger ones.

22 If a company like Exxon or Chevron or any  
23 of the other oil companies, instead of replacing  
24 their \$10,000 dispenser with another \$10,000  
25 gasoline dispenser, they chose to put in a \$10,000

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1 propane dispenser, tank and pump, which is very  
2 similar to what they're using currently, I think  
3 the infrastructure change can come as a natural  
4 course, if there are people to fill up their  
5 vehicles. So I find that is almost a moot point.  
6 Because this has been on the books and it  
7 is ongoing, obviously, it's been taken notice by  
8 many municipalities, by the government already; and  
9 the ball's rolling. If this is put on hold to take  
10 a natural course, it could take another 20 years.  
11 If this is implemented -- and I'm not saying that  
12 the schedule that's currently on the books is  
13 necessarily one that can be met. I do think it's  
14 lofty goals. And because of that, I would not be  
15 against, as Ms. Lewis mentioned, that the committee  
16 can change the goals; but I still feel it needs to  
17 be implemented.  
18 I've also heard today the cost, and  
19 refueling stations has been a big cost, the cost of  
20 conversion or the cost of purchasing OEM upfitted  
21 vehicles. If this is implemented, once again, Ford  
22 currently has a program for propane and natural  
23 gas. GM has a program for natural gas and  
24 electric. And if this becomes a viable product  
25 line, the costs will come in line once again.

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1 Technology change. There is -- as a  
2 matter of fact, Thursday and Friday of this week,  
3 there's a program called the Propane Vehicle  
4 Challenge that challenges universities to create  
5 technology to implement and convert vehicles to run  
6 on alternative fuels. Last year's program, there  
7 was actually one school, I don't recall which one,  
8 which has a fuel-injected propane vehicle. That's  
9 current technology in gasoline. I mean, it's  
10 here. The problem is everybody that I've heard  
11 today wants to say, well, we'll get there on our  
12 time.  
13 You can use the numbers however you  
14 want. Some of the speakers have mixed all the  
15 alternative fuels together, taken the worst of all  
16 of them and said we won't do it. Well, you can't  
17 do that. You've got to specify what you're talking  
18 about, and that is why I believe if everything is  
19 sorted through and all of the issues are looked at  
20 for what they are, that there are reasonable  
21 cost-effective answers in this industry.  
22 The industry has grown in the last five  
23 years. If you've ever attended the Austin  
24 Alternative Fuels Conference, you'll see the first  
25 year, I think there were about 15 companies there.

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1 Now there's over a hundred that show up in five  
2 years. It's growing, and it's growing fast.

3 One of the other problems as far as  
4 incentives, the natural gas industry has had the  
5 benefit of being pushed through by very large  
6 corporations, the gas companies; and in their  
7 investment, they've seen to it that they are exempt  
8 from federal taxation for compressed natural gas  
9 and liquefied natural gas as motor fuels. The  
10 propane industry has not had that, and yet they're  
11 one of the strongest alternative fuels out there  
12 because it's a practical fuel.

13 The neat thing about alternative fuels is  
14 they're also regional fuels with your ethanols and  
15 methanols and compressed natural gas and propane  
16 and even electric. I know electric's growing out  
17 in California, and hydrogen is going to be a fuel.

18 So in closing I think these rulemakings  
19 are necessary to help us so I can drive behind a  
20 truck on Central Expressway and breathe and also  
21 for the security of the country. I think this will  
22 solve both of the problems. It may not be as quick  
23 as we would like, but hopefully by 2010, 2020 we  
24 all can say that this was necessary and now we've  
25 gotten somewhere. Thank you.

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1 MR. RODGERS: Thank you. A couple  
2 of the speakers earlier said that if we -- I'll  
3 paraphrase, but if we go out too early into this  
4 market, that a negative impression could actually  
5 hurt the long-term growth potential. Is it your  
6 impression that we're too early? Ready? Are the  
7 consumers going to be happy with the vehicles that  
8 are available out there today and the fuels?

9 MR. KAPLAN: I believe that -- I  
10 receive phone calls on a weekly basis from not only  
11 cities but from individuals saying, you know,  
12 should I do this? I would say as long as we don't  
13 push it to the individual. The private sector, I  
14 don't have a problem with. I think they can go out  
15 there and get a quality vehicle that will save them  
16 money on a weekly basis on their fuel bill.

17 The infrastructure, I've had three  
18 companies just in the state of Texas that said if  
19 they have a market -- potential market, legislative  
20 market, if you will, that they'll put in fueling  
21 stations up and down I-35, I-45, I-10. The  
22 companies are there to make the investments.

23 Where it gets garbled -- and it can be  
24 accepted. The infrastructure will be there, which  
25 I think is the biggest nut to swallow. But as far

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1 as technology and getting your car serviced, what  
2 the current technology is doing to the vehicle is  
3 very little. They're still using an internal  
4 combustion engine that runs basically the same. It  
5 can be accepted.

6 Mechanically, every year problems creep  
7 up because every year the auto manufacturers change  
8 their engines a little bit, but we can work through  
9 those problems. In a week we can take a brand-new  
10 vehicle that's never been converted and make it  
11 work with the technology just like, if not better  
12 than, it was running on gasoline.

13 MR. RODGERS: Okay. Vivian?

14 MS. LEWIS: No.

15 MR. RODGERS: Thanks very much.

16 MR. KAPLAN: Thank you.

17 MR. RODGERS: Our next speaker is  
18 Mr. Clark Cooper.

19 MR. COOPER: Good afternoon. My  
20 name is Clark Cooper. I'm with the Wonders  
21 Automotive Group of Los Angeles, California. We  
22 have 18 automobile dealerships located within the  
23 state of California, Nevada and Oregon. We sell  
24 approximately 4,000 vehicles a year into the fleet  
25 segment of the market, and we're a hundred percent

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1 behind this mandate for both public and private  
2 use. It's a long time overdue. We wish we had it  
3 a few years ago. We deal every day with these  
4 customers, and we know what their needs, their  
5 wants and their desires are.

6 I'm fortunate enough to be old enough  
7 able to remember our first oil embargo in 1972. I  
8 can remember standing on a showroom floor selling a  
9 454 V-8 large, gasoline -- five-mile-per-gallon  
10 gasoline car with a line that went around the city  
11 block twice to get to the gas station on the corner  
12 and watching the fights break out.

13 Our dependence on foreign oil is not good  
14 for this country. It's not good economically.  
15 It's not good for our environment. We think that  
16 we need the mandates to push industries and  
17 captains of industries here in the United States to  
18 accept these alternative fuel vehicles.

19 We are franchised with Ford, General  
20 Motors, Toyota, Nissan, Saturn, so we provide a  
21 full range of automobiles, the electric, the  
22 methanol, the compressed natural gas, liquefied  
23 natural gas.

24 We think in order to look at the future,  
25 you've got to look at the past. If you look at the

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1 way the automobile industry for the last 75 years  
2 has developed, back in, you know, 1908, 1909, 1910,  
3 you had basically five types of fuel vying for the  
4 customer. You had a diesel car, you had a  
5 compressed natural gas car, you had a steam car,  
6 you had an electric car and you had a four-cycle  
7 internal combustion gasoline engine. They were all  
8 vying, struggling, kind of like what you see out  
9 here in this alternative fuel industry currently  
10 today. And it wasn't until technology -- a guy by  
11 the name of Charles Kettering came along with the  
12 first electric self starter, and everybody liked  
13 it, and all of a sudden everybody went to the  
14 gasoline engine.

15       We predict that you're going to see that  
16 in the alternative fuel arena. Primed by the  
17 federal government through these mandates, there's  
18 going to come to pass a technology that's going to  
19 leap us into the future, probably one of these  
20 types of fuel. We respect your wishes to be  
21 fuel-neutral, as you have. We think that that  
22 should continue.

23       As far as listening to some of these  
24 speakers today saying that we can't do this, you  
25 know, we don't believe that there's anything that

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1 the industrial might of the United States cannot  
2 do. If you look at our technology and our  
3 capability, at the outbreak of World War II,  
4 Douglas Aircraft of Long Beach, California was  
5 building one DC-3 every nine months. Within six  
6 months of the outbreak by a hostile nation  
7 offshore, we were building one DC-3 every 72  
8 hours. We don't believe that things like that  
9 cannot be accomplished providing we have the proper  
10 incentive, and we look to you, the federal  
11 government, as the parents, if you will, to give us  
12 that proper incentive.

13       I think there's another reason why we  
14 need to do this, and this is for our own national  
15 security. You know, we don't globally source the  
16 production of our cruise air missile, and there's a  
17 reason why we don't do that. Why do we globally  
18 source our fuel? It's so important to the United  
19 States and specifically to the automobile  
20 industry.

21       One out of every six people in the  
22 continental the United States either directly or  
23 indirectly derives their income from the automobile  
24 industry. I don't know if you remember what the  
25 last two oil embargoes did to us, but it was

0155

1 devastating.

2 And last but not least, if you look at  
3 our Pledge of Allegiance, what does it say? It  
4 says, "One nation under God, divisible by all." We  
5 think "divisible by all" means everybody, not just  
6 the federal fleet or the state fleet.

7 That's all I have to say.

8 MR. RODGERS: Thank you very much.  
9 Vivian, did you have anything?

10 MS. LEWIS: No, I don't have  
11 anything.

12 MR. RODGERS: Thank you very much,  
13 Mr. Cooper.

14 MR. COOPER: You're welcome.

15 MR. RODGERS: You get the award for  
16 most inspiring presentation. I do have one more  
17 speaker, at least, and that's Mr. Robert Lynch.  
18 If you want to make a clarifying  
19 statement or a rebuttal, please, now's a good time  
20 to give your name and number to Andi back at the  
21 back, and we'll work you in the schedule. Go  
22 ahead.

23 MR. LYNCH: Good afternoon. Thank  
24 you, Mr. Rodgers and Ms. Lewis. My name is Robert  
25 Lynch, and I'm probably the oldest person here, so

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1 I'll speak from age as well as experience.

2 I'm an energy engineer, and that's by  
3 training and by purpose. And I feel like that we  
4 need to address this from a total concept, and I  
5 see the oil industry -- and my dad was with Shell  
6 Oil Company for 37 years, and I grew up in the oil  
7 patch all over Texas, so I know this industry  
8 pretty well -- that we need to approach it as a  
9 cooperative effort and not as an us-against-them  
10 effort. And I see the oil industry, and I see some  
11 exceptions, but I've called on all of them, and  
12 they are determined they're not going to do this.  
13 And I don't think that's to the benefit of the  
14 American public, their customer, or the benefit of  
15 us that are involved.

16 This is supposed to be a public meeting,  
17 and I don't see very many of the public here, so I  
18 want to speak a little bit for the public sector.  
19 It depends on whose dog you're kicking as to how  
20 your reaction is, and I don't think I have a real  
21 strong dog to kick in this, so I'll try to be as  
22 neutral as I can with my comments; but I think the  
23 statistics have to be brought out.

24 There is a finite amount of fossil fuel.  
25 We're still finding new fields, but even as we

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1 bring those fields on, we're depleting fields, and  
2 there's a measurable amount. I can remember when  
3 the oil industry told us that we were going to run  
4 out of natural gas, we would be out in 50 years;  
5 and so natural gas went up to \$6.05 CFM. Wasn't  
6 true, but they proved to the government and to the  
7 public with their statistics that we were going to  
8 run out of natural gas. Now we're to the point  
9 we're saying we've got almost a hundred years of  
10 natural gas.

11       It may be that we have a hundred years of  
12 oil, but I don't think so, not from my measurements  
13 and from what I understand. My charts, my  
14 diagrams, my bulletins that I read say that we're  
15 going to start to have a real strong decline of new  
16 oil sources in about 2010, and we're going to see a  
17 strong decline.

18       One of the statistics brought up today  
19 was that if we had as many people driving cars in  
20 China as we have in the rest of the world that they  
21 would use all of the oil produced daily. China as  
22 a nation would use all the oil. We wouldn't have  
23 any over here in America. That's not going to  
24 happen either, but it's a frightening statement.

25       I want to talk about types of fuel. If

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1 the oil industry cannot make a profit, then they  
2 are going to be a very aggressive enemy, so we  
3 must -- whatever plan we come up with must protect  
4 those vested interests so they make a profit. They  
5 have enormous investments in oil, enormous  
6 investments in drilling rigs, enormous investments  
7 in infrastructure and filling stations. And had  
8 the oil industry not made a profit and not done  
9 that, we wouldn't have an infrastructure for  
10 gasoline and diesel fuel.

11       I want to speak about diesel fuel as a  
12 fuel, and I hope I can find a commonality with  
13 Exxon and Mobil and Chevron and the other major oil  
14 companies, including Shell Oil Company. And Shell  
15 Oil Company has a representative for alternative  
16 fuel at this meeting, and I don't see one from  
17 Mobil. I don't see one from Exxon. So, gentlemen,  
18 I'd like for you -- no, sir. Did you attend the  
19 meeting -- all these meetings for the alternative  
20 fuels?

21       MR. McDONALD: Which ones? There  
22 were thousands.

23       MR. LYNCH: Well, it started on  
24 Sunday.

25       MR. McDONALD: We didn't go to this

0159

1 one.

2 MR. LYNCH: I see. We would invite  
3 you to join us and come, because I don't think  
4 we're an enemy, but we're striving to achieve  
5 something that says there's going to be a time  
6 we're going to run out of our fossil fuel, and what  
7 is the alternative.

8 The National Energy Policy Act is the  
9 first thing I've seen that's thrilled my heart a  
10 little bit -- is that we think we might have a  
11 National Energy Policy Act. We haven't had one up  
12 until now. Our policy act is if Saudi Arabia gets  
13 attacked, we go protect them. If Iraq gets out of  
14 line, we go protect them. We send our American  
15 boys over there and we trade their lives for oil.  
16 And what is that oil? That's dollars, profits to  
17 our stockholders and to the people that work in  
18 that industry.

19 I want to speak about diesel fuel.  
20 Diesel fuel is not an old fuel in the world, as far  
21 as America is concerned in diesel. It was used as  
22 a transportation fuel for trucks, and Mercedes Benz  
23 changed that; and, I guess, single-handedly they  
24 changed that. But they worked with the oil  
25 industry and didn't try to change the oil

0160

1 industry. Because in Dallas, Texas when Mercedes  
2 Benz came into town, there was not a single place  
3 that you could fill up a Mercedes Benz vehicle.  
4 You could fill up a truck at the depot, but you  
5 couldn't fill up a car. So Mercedes Benz opened a  
6 filling station, one filling station in north  
7 Dallas, and finally got to where they had enough  
8 filling stations where the cars were being filled  
9 up, so you were comfortable. Otherwise, if you ran  
10 out of diesel fuel, you had to have a wrecker come  
11 get you and haul you in.

12 Diesel fuel represents 50 percent of all  
13 the oil that we use for transportation fuels. 50  
14 percent of all the oil that we process for  
15 transportation is devoted to make 50 percent of the  
16 diesel fuel. I hope I'm making that statistic  
17 clear.

18 We have around 240 to 250 million  
19 automobiles in America. We have 16 million,  
20 approximately, diesel trucks and stationary engines  
21 running on diesel fuel, and the 16 million diesel  
22 trucks drive more fuel than all the gasoline cars  
23 in America. That's something else. So if we can  
24 move a structure away from diesel fuel, I don't  
25 think we've hurt the oil companies. And they



0161

1 control natural gas either through financial  
2 investments or through the utility companies. I  
3 know the railroad company owns some natural gas.  
4 But if we could ask them to look at diesel fuel --  
5 not gasoline, leave gasoline alone. Let's talk  
6 about 50 percent of the problem -- we would  
7 eliminate 50 percent of our imported oil. Now,  
8 that's a sizable amount of savings, and still let  
9 the oil companies make the profit on the natural  
10 gas.

11 The projections are that we'll import 73  
12 percent of all oil by 2010, and I guess in 2020  
13 we're importing a hundred percent, but of what? If  
14 we've used it up, we're not importing it.

15 If we could address, get the industry --  
16 I'm talking about cooperative effort. And let us  
17 look at the diesel transportation system. That's  
18 what all of us fuss about when we're on the road is  
19 the diesel trucks with the pollutants, the public  
20 transportation with the pollutants. And we have an  
21 accurate statement that says that 50 percent of all  
22 pollution, 50 percent of all pollution is caused by  
23 diesel fuel, not gasoline. 50 percent of all  
24 pollution is caused by diesel fuel. So if we could  
25 have a meeting where we could get together and say

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1 let us work on a problem, we could approach that.

2 We have diesel engines being developed by  
3 Cummings, Detroit Diesel, Navistar International,  
4 Caterpillar to run on natural gas, and they  
5 actually improve the performance of those engines.  
6 I have a vested interest in that I have a patent  
7 for a device that would convert diesels to run on  
8 natural gas or propane or hydrogen, so I do have a  
9 dog in the fight somewhere.

10 I'd like to get an attitude here that we  
11 do this. I called on utility companies, and  
12 they're under Title Five. The oil companies are  
13 under Title Five. I don't see any cooperation at  
14 all from them the major utility companies -- there  
15 are exceptions -- nor from the major oil companies,  
16 and there may be exceptions. I don't know that.  
17 But that mandate's got some numbers in it that  
18 start in 1998 and the year 2000, and I think it's  
19 to the benefit of the American public that we try  
20 to address pollution.

21 I'm not against profits. I want profits  
22 because I want to be able to get my children to  
23 work for natural gas companies and the oil  
24 companies. I have eight children, and five of them  
25 are involved in some form of the oil industry, so

0163

1 I'm dependent upon them to be supported; so we want  
2 to keep this infrastructure.

3 I've turned this into a ramble, and I  
4 didn't intend to do that, but I'd like to see if we  
5 couldn't find some people to set the example. The  
6 utility companies are supposed to set the example  
7 for us. That's what the law, Title Five says. And  
8 it says the fuel providers will set the example,  
9 and I think we need an example set.

10 I'm working on two private fleets that  
11 are committed to alternative fuel because they want  
12 to be the first companies to be nonpollutant.  
13 Coca-Cola is one of them. They plan to have the  
14 first bottling fleet that is clean air. And the  
15 other, strange as it may seem, is American  
16 Airlines, and they're doing it voluntarily. So I  
17 think that if we could work towards that.

18 If we don't have somebody pushing us --  
19 if I didn't have a first grade teacher demanding  
20 that I learn, I wouldn't have learned anything.  
21 And I think we need the DOE to have some guidelines  
22 for us, and the industry needs to work with them a  
23 little bit and try to get this thing moving.

24 If it's by 2004, I may not be around, but  
25 it's going to be important for our children. Thank

0164

1 you.

2 MR. RODGERS: Thank you. I want to  
3 thank all of our scheduled speakers. We now have  
4 the opportunity, as we're coming to a close, for  
5 anyone else who was not scheduled that would like  
6 to come forward and make a comment. Now is your  
7 last chance to do so today, although you're  
8 certainly welcome to provide written comments.

9 Seeing no one, I'd like to move to the  
10 next step, which is if anyone would like to make  
11 some clarifying comments. I have one person that  
12 signed up now, Tom McDonald. If anyone else wants  
13 to make a clarifying comment, put yourself on the  
14 list and you'll come next. Thanks, Tom, for  
15 sticking around so long and staying with us.

16 MR. McDONALD: Again, I'm Tom  
17 McDonald from Mobil, and I'm simply coming up -- I  
18 lost my train of thought during a question, and  
19 that's what I'd like to cover.

20 We talked about what it is that would  
21 make the fuels economical or the vehicles  
22 economical and get industries like Mobil Oil,  
23 Exxon, Texaco, Chevron, the other majors, involved  
24 in this. And I think the answers lie in two  
25 places, and they were from two previous speakers.

0165

1 I originally started to say it was Lone  
2 Star, and I have to back up; that's not correct.  
3 If my recollection is correct, it was Mr. Amos from  
4 the city of St. Louis who indicated that in  
5 general, as petroleum naturally becomes less  
6 economic -- and whether that's through abundance or  
7 domestic abundance or however you want to read  
8 that, but less economically abundant -- private  
9 businesses and entrepreneurs will rush to fill the  
10 void. And that was borne out by the gentleman from  
11 Lone Star who indicated that currently they are not  
12 receiving a return on their capital investment in  
13 alternative fuel infrastructure.  
14 And therein lies the key, that many  
15 people testified today that the technology is  
16 there. I've driven a CNG vehicle. I've not driven  
17 a propane vehicle, but I have driven a CNG  
18 vehicle. The technology is there. The technology  
19 for the infrastructure is there. My prior life  
20 before being involved in government regulations was  
21 in engineering, and I was in charge of service  
22 station construction. We've done natural gas  
23 facilities. It's technically feasible. The  
24 problem is the cost and the return on capital  
25 investment. As it becomes more economical,

0166

1 companies will rush to fill the void.  
2 That, basically, is our position on this  
3 matter.  
4 MR. RODGERS: Thank you very much  
5 for sticking around. I have one other person who  
6 wanted to make a clarifying comment, Kim McKenzie.  
7 You get the award for staying power, since you were  
8 the first speaker.  
9 MS. McKENZIE: Thank you. I'm Kim  
10 McKenzie with Natural Fuels out of Denver.  
11 Coincidentally enough, my comment also deals with  
12 fueling stations.  
13 Merely to say that -- again, today we've  
14 heard several times that everyone knows a CNG  
15 fueling station costs 250 to \$500,000. I don't  
16 know how that's out there. It doesn't.  
17 I could insist on a minivan to get my  
18 kids to school be a Silver Shadow, but there are  
19 other alternatives that could meet that need for  
20 me; and I think that's true in CNG fueling stations  
21 as well. Before those kinds of numbers factor into  
22 anyone's evaluation of the economics and the  
23 feasibility of alternative fuels, I sure wish we  
24 could pursue that a little bit further.  
25 That's all I have. Thank you.

0167

1 MR. RODGERS: Actually, thank you  
2 for that, Kim, and if you have an opportunity,  
3 before the close of the comment period, to submit a  
4 brief assessment of infrastructure costs and the  
5 variety of different infrastructures and refueling  
6 options that are available, we'd be happy to have  
7 that in the record.

8 MS. McKENZIE: I can. If you're  
9 interested, I'll give you just some quick rules of  
10 thumb.

11 MR. RODGERS: Sure.

12 MS. McKENZIE: We as an industry and  
13 we as a company -- and this is not a sales pitch,  
14 believe me -- are working and can achieve fueling  
15 station costs of \$1,000 per CFM, okay? This is  
16 considerably less than some of the early stations  
17 that went in. If you're looking at a 60 CFM, cubic  
18 foot per minute, station, we ought to be able to do  
19 something in that regard for about \$60,000, okay?  
20 This is considerably under the 500,000 number that  
21 everybody knows is true.

22 The other piece I would like to see is we  
23 believe that for every dollar we invest that we can  
24 make a respectable return on investment if we can  
25 sell 1.3 gallons of fuel per year for every dollar

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1 invested. So we're not looking at having to do  
2 only transit bus sized facilities. All we're  
3 asking for is a sufficient market out there that we  
4 can realistically hope can get some sort of fuel  
5 use so we can make this economically viable. Does  
6 that answer your question?

7 MR. RODGERS: Yes. Thank you.  
8 Vivian, would you like to ask?

9 MS. LEWIS: No. Thank you.

10 MS. McKENZIE: Thank you.

11 MR. RODGERS: I want to express my  
12 appreciation for all the folks that came out today  
13 and made comments. This is a very important part  
14 of the Department of Energy's commitment to  
15 fulfilling the requirement of the Energy Policy  
16 Act, to receive public comment. And I really want  
17 to commend each and every one of you for coming  
18 forward today and contributing to that process.

19 I also want to thank Vivian for sharing  
20 her time with us and Andi Kasarsky for organizing  
21 and holding this event. And I invite you and your  
22 organizations to provide additional comments at our  
23 subsequent hearings on September 25th in Sacramento  
24 and October 9th in Washington, D.C. Thank you very  
25 much.

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1           C E R T I F I C A T E

2

3     I, Michael E. Miller, Certified Shorthand  
4 Reporter in and for the State of Texas, do hereby  
5 certify that the above and foregoing pages contain  
6 a full, true and correct transcription of my  
7 shorthand notes taken upon the occasion set forth  
8 in the caption hereof, as reduced to typewriting by  
9 me and under my supervision.

10    I further certify that this transcription of  
11 the Court Reporter's notes truly and correctly  
12 reflects the exhibits admitted into evidence, if  
13 any.

14       GIVEN UNDER MY HAND AND SEAL OF OFFICE on  
15 this 19th day of September, A.D., 1996.

16

17

18           Michael E. Miller, CSR  
19           Certified Shorthand Reporter in and for  
20           the State of Texas

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